
Supplemental Remedial Investigation Report Addendum

for

**Former Watermark Site
BCP Site No. C224139
491 Wortman Avenue
Brooklyn, New York 11208**

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1.0 INTRODUCTION

Per the New York State Department of Environmental Conservation (NYSDEC)-approved Supplemental Remedial Investigation Work Plan (SRIWP) Addendum, prepared by P.W. Grosser Consulting, Inc. (PWGC) and dated June 4, 2014, Langan performed supplemental groundwater and soil vapor sampling at the Former Watermark Site located at 491 Wortman Avenue, Brooklyn, New York (the "Site"). Refer to Figure 1 for a Site Location Plan.

J&H Holding Company, LLC has been accepted into the New York State Brownfield Cleanup Program (BCP) as a Participant (BCP Site No. C224139). The supplemental remedial investigation performed in October and November 2014 is intended to further delineate the off-site extent of chlorinated volatile organic compound (CVOC)-impacted groundwater and soil vapor associated with NYSDEC Spill #08-09879.

The supplemental off-site investigation scope of work consisted of the following tasks:

1. Delineation of off-site groundwater impacts;
2. Delineation of off-site soil vapor impacts; and
3. Determination of the use and occupancy of the neighboring buildings.

This addendum to the February 23, 2014 Supplemental Remedial Investigation (SRI) Report includes a description of the groundwater and soil vapor sampling methodology, a summary of the laboratory analysis and a discussion of the results.

2.0 SUPPLEMENTAL OFF-SITE INVESTIGATION

The off-site investigation was completed between October 9 and November 4, 2014. Per the NYSDEC-approved SRIWP Addendum, dated June 4, 2014, the off-site investigation was completed to supplement the available soil vapor and groundwater data sets to further delineate off-site CVOC impacts. A summary of samples collected during the off-site investigation is provided in Table 1.

The off-site investigation consisted of the following:

- Installation of 5 nested groundwater monitoring wells (3 wells per nested set) and collection of 20 groundwater samples (including five quality assurance/quality control [QA/QC] samples);
- Survey of groundwater monitoring wells to determine local groundwater flow direction; and
- Installation of four soil vapor points and collection of five soil vapor samples (including one duplicate) and one ambient air sample.

Site investigation was conducted in accordance with New York Codes, Rules and Regulations Title 6 Part 375 (6 NYCRR Part 375), the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (May 2010) (DER-10), the NYSDEC Draft BCP Guide (May 2004), and the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006). Details of the field investigations are described herein.

2.1 Groundwater Investigation

On October 9, 10, 16, 17 and 20, 2014, Langan field personnel observed and documented the installation of five nested groundwater-monitoring wells. Nested groundwater-monitoring wells MW012, MW013, MW014, MW015 and MW016 were installed by AARCO Environmental Services Corp. (AARCO) of Lindenhurst, New York. Prior to installation of the nested monitoring wells, AARCO drilled each location using a hollow-stem auger to

approximately 60 feet below ground surface (bgs). Each boring was initially hand cleared to approximately 5 feet bgs and a track-mounted Geoprobe® direct-push drill rig was used to auger the remaining 55 feet. Soil cuttings were collected in labeled drums for off-site disposal.

Each nested monitoring well included three distinct lengths of 2-inch diameter polyvinyl chloride (PVC) pipe. The PVC pipes were screened (0.010-inch slot) at three different intervals within each nest; deep (D – 50 to 60 feet bgs), middle (M – 30 to 40 feet bgs) and shallow (S – 10 feet across the water table). A total of 15 monitoring wells were installed. Clean sand (Morie #2) was used to fill the annulus around each well screen to a height of approximately two-feet above the well screen. An approximate 6-inch layer of transition sand (Morie #0) was installed above the clean sand, and a 2-foot bentonite seal was installed above the transition sand layer. Above the top-most bentonite seal, the annulus around the well was filled with a cement-bentonite grout. Each nested monitoring well was finished with a 12-inch-diameter, flush-mount, bolt-down manhole set into a concrete collar. Nested groundwater monitoring well locations are shown on Figure 2, and well construction logs are included in Appendix A.

On October 22 and 23, 2014, each groundwater monitoring well was developed using a submersible pump. Development of each well was considered complete when turbidity was less than or equal to 50 Nephelometric Turbidity Units (NTUs) and when pH, temperature and conductivity (i.e. field parameters) measurements stabilized. Stabilization was considered achieved when three consecutive readings of the field parameters were within five percent of each other over a period of 15 minutes. Development water was collected in labeled drums for off-site disposal.

On November 3 and 4, 2014, Langan gauged and sampled the groundwater monitoring wells. Prior to purging, depth-to-bottom and depth-to-water measurements were collected at each monitoring well using a decontaminated oil-water interface probe. Each well was then low-flow purged to collect representative groundwater samples. Groundwater field

parameters were measured with a Horiba U-52 multiparameter meter. Purging of each well continued until the turbidity was less than or equal to 50 NTUs and when field parameter measurements stabilized. Once purging was complete, a low-flow pump and dedicated polyethylene tubing were used to collect groundwater samples directly from the pump discharge line into pre-cleaned, laboratory-supplied containers. Per the SRIWP Addendum, sampling was completed in accordance with procedures set forth in the United States Environmental Protection Agency's (EPA) low-flow groundwater sampling procedure. Groundwater sampling logs are included in Appendix B.

Fifteen groundwater samples and one field duplicate were collected from 15 monitoring wells. The duplicate sample was collected from MW013-D. In addition, one field blank and three trip blanks were collected for QA/QC purposes. Each sample container was labeled, placed in a laboratory-supplied cooler, packed with ice, and transported by a laboratory courier, under chain-of-custody protocol, to York Analytical Laboratory, a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory located in Stratford, Connecticut. Upon receipt by York, groundwater samples, the field duplicate and the field blank were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs) by EPA Method 8260, TCL Semivolatile Organic Compounds (SVOCs) by EPA Method 8270 and Target Analyte List (TAL) Metals (filtered and unfiltered) by EPA Method 6010. Three trip blanks (TB01, TB02 and TB03) were analyzed for TCL VOCs. Laboratory analytical reports for all collected samples are provided in Appendix C.

Monitoring wells were surveyed on November 11 and 12, 2014 by Langan. The northern point of the top of each PVC riser within each nested well location was the recorded top of casing elevation. Based on the survey, the following list provides the supplemental well distances and directions, as measured from the southwest corner, from the Site.

- MW012 is roughly 200 feet west,
- MW013 is roughly 185 feet southwest,
- MW014 is roughly 260 feet south,

- MW015 is roughly 140 feet to the southeast, and
- MW016 is roughly 175 to the north.

2.2 Soil Vapor Investigation

Five permanent soil vapor points were installed in conjunction with the nested groundwater monitoring wells on October 9, 10, 16, 17 and 20, 2014 by AARCO. Langan field personnel were on-site to document installation activities. Each soil vapor point was co-located with a nested groundwater monitoring well. A new, dedicated stainless-steel screen implant (3/8-inch diameter and approximately 6-inches in length) was threaded to Teflon-lined, polyethylene tubing (0.313-inch diameter) and lowered to approximately 4.5 feet bgs within each boring. Approximately two-feet of clean sand (Morie #2) was installed around the screen implant with an approximate 1.5-foot bentonite seal above. The remaining annular space was filled with a cement/bentonite grout. Each soil vapor point is protected by a flush-mount manhole cover. Soil vapor point locations are shown on Figure 2.

On November 4, 2014, Langan conducted soil vapor sampling. Prior to, and at the conclusion of sampling, Langan performed a tracer gas test using helium gas. The helium tracer gas test is a QA/QC measure to confirm the integrity of the implant seals by evaluating whether outdoor air intrusion will impact the soil vapor sample (i.e., that no "short circuiting" has occurred). The helium was introduced into an upside-down, five-gallon container over the surface of the sampling location being tested. The edges of the bucket were sealed to the surface with hydrated bentonite to maintain an enriched concentration of helium within the container. With the sample train activated and drawing air at less than 0.2 liters per minute, the outlet air was monitored using the real-time helium monitor. A detection of helium would indicate that the seal was compromised and must be replaced. None of the soil vapor sample locations failed the helium tracer gas test, indicating that all seals were intact.

A photoionization detector (PID) with a flow rate less than 0.2 liters per minute was attached to the polyethylene tubing, and a total volume of at least three times that of the tubing and

screen setup was purged. The purged soil vapor was also monitored for VOCs. After purging was complete, a laboratory-supplied, 6-liter Summa canister with a flow controller (with a laboratory-preset flow rate of 0.1 liters per minute) was attached to the polyethylene tubing. Each Summa canister arrived from the lab with approximately 29 to 30 inches of mercury vacuum. The sample was collected over a period of approximately 60 minutes. When approximately 6 liters of sample had been collected or the canister pressure dropped below approximately 5 inches of mercury, the sample was stopped.

Five soil vapor samples were collected, plus one duplicate and an ambient air sample. The duplicate sample was collected from SV007 and the ambient air sample was collected on the northwest corner at the intersection of Wortman Avenue and Linwood Street. The soil vapor sample log is included in Appendix D.

The soil vapor and ambient air samples were transported from the Site to York by a laboratory-supplied courier for analysis of VOCs by EPA Method TO-15. Methodologies employed during the soil vapor assessment conform to the NYSDOH Final Guidance on Soil Vapor Intrusion, October 2006.

2.3 Quality Control Sampling

During the off-site investigation, field duplicates, trip blanks, a field blank and an ambient air sample were collected and submitted for laboratory analysis. During the course of the investigation, the following quality control samples were collected:

Groundwater Samples

- One field duplicate sample
- One field blank sample
- Three trip blank samples

Soil Vapor Samples

- One ambient air sample
- One field duplicate sample

Field duplicates were collected to evaluate the precision of the analytical methods. The duplicates were collected from the same material as the primary sample by splitting the volume of sample collected in the field into two sample containers. The field duplicates were analyzed for the same parameters as their parent samples.

The trip blank samples were collected to assess the potential for contamination of the sample containers and samples during the trip from the laboratory, to the field, and back to the laboratory for analysis. Trip blanks contain approximately 40 milliliters of acidic water (doped with hydrochloric acid) that is sealed by the laboratory when the empty sample containers are shipped to the field, and unsealed and analyzed by the laboratory when the sample shipment is received from the field. The trip blank samples were analyzed for TCL VOCs.

Field blank samples were collected to assess the potential for contamination of the sample containers and samples from sampling equipment. The groundwater field blank sample was analyzed for TCL VOCs, TCL SVOCs and TAL metals (filtered and unfiltered).

2.4 Data Validation

The off-site investigation data was validated in accordance with the EPA validation guidelines for organic and inorganic data review. A Data Usability Summary Report (DUSR) was prepared following the data validation. The DUSR presents the results of data validation, including a summary assessment of laboratory data packages, sample preservation and chain of custody procedures, and a summary assessment of precision, accuracy, representativeness, comparability and completeness for each analytical method. A copy of the DUSR is included in Appendix E.

2.5 Field Equipment Decontamination

Groundwater sampling equipment including the oil-water interface probe, water quality meters, and sampling pump were cleaned with Alconox and rinsed with water between sampling locations. Decontamination wastewater was drummed for disposal.

2.6 Investigation-Derived Waste Management

All investigation-derived wastes (IDW) generated during the off-site investigation were containerized. Drill cuttings from boring advancement, aqueous waste from monitoring well development and purging, and decontamination water were placed into UN/DOT-approved 55-gallon steel drums with closed tops. The drums were staged in the 491 Wortman Avenue building pending off-site disposal.

3.0 OFF-SITE INVESTIGATION ANALYTICAL RESULTS

The following section summarizes the groundwater and soil vapor laboratory analytical results for the samples collected during the off-site investigation. Groundwater analytical results are compared to the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards (AWQS) and Guidance Values and Groundwater Effluent Limitations (TOGS AWQS) for Class GA groundwater.

A summary of the groundwater and soil vapor samples is provided in Table 1.

3.1 Groundwater Findings

A summary of laboratory detections for groundwater samples collected during the off-site investigation with comparison to NYSDEC TOGS AWQS for Class GA groundwater is provided in Table 2. Groundwater results that exceed the TOGS Class GA AWQS are shown on Figure 3.

The following is a summary of exceeding concentrations organized by analytical parameter:

3.1.1 Volatile Organic Compounds

VOC concentrations exceeding the TOGS Class GA AWQS were detected in 12 of the 15 monitoring wells. Table 2.1.1 (below) details the maximum and minimum concentrations for each VOC, with well location identified, across the shallow, middle and deep intervals. The absence of a confining layer (e.g. clay layer) between grade and 60 feet bgs allows for vertical (i.e. downward) and horizontal movement of the VOCs through this portion of the aquifer.

Table 3.1.1: VOC Groundwater Exceedance by Depth Interval

Parameter	Number of Exceedances	Maximum Concentration		Minimum Concentration	
		Value (µg/l)	Location	Value (µg/l)	Location
Shallow (10 feet across the water table)					
1,1-Dichloroethane	1	6.40	MW013	N/A	

1,1-Dichloroethene	1	8.70	MW013	N/A
cis-1,2-Dichloroethene (DCE)	1	58 D	MW013	N/A
Tetrachloroethene (PCE)	2	140 D	MW013	5.10 MW014
Trichloroethene (TCE)	1	1,300 D	MW013	N/A
Vinyl Chloride	1	2.70	MW013	N/A
Middle (30 to 40 feet bgs)				
1,1,1-Trichloroethane	1	6.10	MW012	N/A
cis-1,2-Dichloroethene (DCE)	2	24	MW013	6.80 MW012
Tetrachloroethene (PCE)	5	33	MW013	7.30 MW016
Trichloroethene (TCE)	3	240	MW013	37 MW013
Deep (50 to 60 feet bgs)				
Tetrachloroethene (PCE)	6	18	MW014	13 MW013
Trichloroethene (TCE)	4	7.40	MW013	7 MW014

Notes:

1. µg/l = micrograms per liter
2. N/A = In the event that only one exceedance was observed, the value was listed as the maximum exceedance and the minimum exceedance was listed as not applicable (N/A).
3. D = Result is from an analysis that required a dilution.

3.1.2 Semivolatile Organic Compounds

Per the laboratory analysis, the SVOC bis(2-ethylhexyl)phthalate was detected at two locations, MW014-D (30.30 µg/l) and MW016-S (10.40 µg/l), at concentrations greater than its TOGS Class GA AWQS. During validation, the presence of bis(2-ethylhexyl)phthalate in the method and field blanks was reviewed and both concentrations were flagged: MW014-D with a "U" and MW016-S with an "R." The findings summarized in the DUSR indicate the elevated concentrations were more likely the result of laboratory cross contamination and not representative of Site conditions. According to the final validated results, no SVOC groundwater concentrations exceeded the AWQS.

3.1.3 Total Metals

- Magnesium
- Manganese
- Selenium
- Sodium

3.1.4 Dissolved Metals

- Magnesium
- Manganese
- Selenium
- Sodium

Groundwater samples were submitted for analysis of unfiltered and dissolved metals. Both the unfiltered and the dissolved samples contained magnesium, manganese, selenium and sodium at concentrations greater than their respective TOGS Class GA AWQS. Magnesium, manganese, selenium and sodium are naturally occurring minerals and indicative of background conditions; metals are not considered groundwater COCs.

3.2 Soil Vapor Findings

Five soil vapor samples and one ambient sample were collected. There is no standard in New York State for direct comparison of the soil vapor results. A summary of the laboratory analytical results is provided in Table 3 and Figure 4.

The following VOCs were detected above the reporting limit in one or more of the soil vapor samples:

- | | | |
|---------------------------|---|-----------------------|
| • 1,1,1-Trichloroethane | • 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | • 1,1-Dichloroethane |
| • 1,1-Dichloroethylene | • 1,2,4-Trimethylbenzene | • 1,2-Dichloropropane |
| • 1,3,5-Trimethylbenzene | • 1,4-Dichlorobenzene | • 2-Butanone |
| • Acetone | • Benzene | • Carbon Disulfide |
| • Carbon Tetrachloride | • Chlorobenzene | • Chloroform |
| • Chloromethane | • cis-1,2-Dichloroethylene (DCE) | • Cyclohexane |
| • Dichlorodifluoromethane | • Ethyl Acetate | • Ethyl Benzene |
| • Isopropanol | • Methyl Tert-Butyl Ether | • Methylene Chloride |
| • n-Heptane | • n-Hexane | • o-Xylene |

- p- & m-Xylene
- p-Ethyltoluene
- Styrene
- Tetrachloroethene (PCE)
- Tetrahydrofuran
- Toluene
- Trichloroethene (TCE)
- Trichlorofluoromethane (Freon 11)

CVOCs were detected in each soil vapor sample at concentrations above the reporting limit. The most prevalent CVOCs were PCE and TCE, which were detected above the reporting limit at each soil vapor point (including the duplicate sample collected at SV007). PCE concentrations ranged from 110 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) (SV006) to 600 $\mu\text{g}/\text{m}^3$ (SV005). TCE concentrations ranged from 11 $\mu\text{g}/\text{m}^3$ (SV007) to 2,900 $\mu\text{g}/\text{m}^3$ (SV005). DCE (a daughter product of PCE and TCE) was also detected above the reporting limit in two of the six soil vapor samples at concentrations of 3.9 $\mu\text{g}/\text{m}^3$ in SV004 and 61 $\mu\text{g}/\text{m}^3$ in SV005.

3.3 Quality Control Samples

Quality control sample results were verified during data review. One duplicate sample was collected from groundwater and one was collected from soil vapor. Three trip blanks were collected. Laboratory results for duplicate samples are presented in Tables 2 and 3.

3.4 Data Usability

Data validation was performed in accordance with the EPA validation guidelines for organic and inorganic review using Analytical Services Protocol Category B laboratory reports.

The data validation resulted in one major deficiency: the bis(2-ethylhexyl)phthalate concentration in MW016-S was rejected. As detailed in the DUSR, the reason for this rejection was due to the internal standard area count for chrysene-d12 being less than the lower control limit (i.e. 50%) at 0.6%. Since chrysene-d12 is used to quantitate bis(2-ethylhexyl)phthalate, the result was rejected and it is flagged with an "R" on Table 2. The DUSR is included in Appendix E.

4.0 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

The following Qualitative Human Health Exposure Assessment has been compiled to evaluate the assumed contaminant sources, the potential subsurface migration and exposure pathways, and the potential receptor populations including intake route.

4.1 Contaminant Source

During the off-site investigation, seven CVOCs were detected above their respective TOGS Class GA AWQS in five of the fifteen monitoring wells from three nested locations. Four of the CVOCs detected above their AWQS include PCE and TCE and their daughter products, DCE and vinyl chloride. Per the conclusions of the SRI Report, the Site is a known source of PCE and TCE. As PCE and TCE travel through groundwater, breakdown is anticipated, which explains the presence of DCE and vinyl chloride.

During the off-site investigation, groundwater was encountered at approximately 10 feet bgs and the soil was noted as granular in nature and relatively homogenous throughout the drilled interval. These observations were consistent with the geologic and hydrogeologic conclusions of the SRI Report. Due to the homogenous nature of the granular subsurface, as CVOCs are transported through groundwater via advection, both vertical and lateral transport is anticipated. As such, the presence of PCE and TCE and their daughter products in the middle and deep intervals of the off-site monitoring wells downgradient of the Site is not unexpected.

The highest CVOC concentrations were identified in the shallow interval at MW013. These concentrations were detected at two to three orders of magnitude greater than the concentrations identified in the other off-site monitoring wells. In comparing MW013 CVOC concentrations to those of off-site wells at the intersection of Wortman Avenue and Linwood Street that were sampled during the supplemental investigation conducted by PWGC in 2013 (specifically monitoring wells MW010, MW011 and ML002 presented in the SRI Report Figure 6), the MW013 CVOC concentrations are one order of magnitude greater

than the MW010 and MW011 concentrations and two orders of magnitude greater than ML002 concentrations. These wells are located downgradient from the Site source and upgradient from MW013. As such, the MW013 CVOC concentrations are not consistent with the conceptual site model provided in the SRI Report or typical fate and transport of chlorinated solvents in groundwater. Accordingly, the shallow MW013 CVOC groundwater concentrations are likely the combined result of an unidentified off-site source with a lesser impact from the Site source.

The three remaining CVOCs, 1,1,1-trichloroethane, 1,1-dichloroethane and 1,1-dichloroethene, were detected in MW013-S and MW014-M. 1,1,1-trichloroethane, 1,1-dichloroethane are not related to PCE and TCE, are highly volatile, have relatively low water solubility, and typically do not travel far from their source of origin. 1,1-dichloroethene is a degradation product of TCE, 1,1,1-trichloroethane, and 1,1,1,2-tetrachloroethane. Based on the distances of MW013 (185± feet) and MW014 (260± feet) from the Site and the fact that these CVOCs were not in use at the Site, it is unlikely that impacts related to 1,1,1-trichloroethane, 1,1-dichloroethane and 1,1-dichloroethene originated from the Site source.

During the off-site investigation, petroleum and chlorinated solvent-related VOCs were identified in the subsurface soil. Previous Site investigations did not reveal any known point sources of petroleum-related contaminants. Therefore, it is concluded that the petroleum-related VOCs (i.e. toluene and ethyl benzene) are more likely attributable to a nearby off-site source.

PCE and TCE were detected above the laboratory reporting limit in all soil vapor samples. The CVOC occurrences are attributed to soil vapor movement through the granular soils above the water table and CVOC volatilization at the water table. As with the groundwater impacts, the CVOCs apparent in the soil vapor cannot solely be attributed to the known on-site contamination, and it most likely includes concentrations relative to unknown off-site sources.

4.2 Conceptual Transport Model

Regional groundwater is assumed to flow towards the south-southwest, and as previously noted; depth to groundwater is approximately 10 feet bgs in the vicinity of the Site. The subsurface soils are relatively homogenous and granular in nature, which allows for both vertical and horizontal transport of CVOCs through the groundwater.

The off-site investigation revealed PCE and TCE groundwater concentrations greater than the TOGS Class GA AWQS in off-site monitoring wells located to the south, west and southwest of the Site. With the exception of MW013-S, the concentrations detected in the off-site monitoring wells decreased by one to two orders of magnitude when compared to the analysis of the on-site and immediately adjacent off-site wells detailed in the SRI Report. Detections of DCE and vinyl chloride (i.e. PCE and TCE daughter products) were identified in multiple on-site and off-site monitoring wells; including detections above the TOGS Class GA AWQS. Due to the presence of PCE and TCE concentrations south-southwest of the Site it is assumed that CVOC transport from the point source is taking place to a certain extent in the direction of regional groundwater flow. The notable decrease in PCE and TCE concentrations from the on-site monitoring wells to the off-site monitoring wells and the presence of their daughter products in both the on-site and off-site monitoring wells is most likely indicative of an ongoing natural attenuation process.

The nearest surface water body is Hendrix Creek. The closest off-site monitoring well (MW014) is located approximately 0.45 miles to the northeast. Considering this distance, the marginal groundwater gradient (as described in the SRI Report) and the off-site CVOC concentrations, it is unlikely that the observed off-site impacts would affect Hendrix Creek.

Based on the proximity of the off-site sampling locations to the Site (within roughly 260 feet) and the fact that each was located in the same urban setting, a Fish and Wildlife Resources Impact Analysis is not required. Habitats for endangered, threatened, and/or special concern species do not exist in the area and potential adverse impacts to fish and wildlife sources are not anticipated due to the urban location.

4.3 Potential Exposure Pathways and Receptor Populations

The off-site monitoring wells and soil vapor points are located in an urban neighborhood, mostly characterized by manufacturing that borders a residential neighborhood to the northwest. The area is mostly covered by asphalt, concrete sidewalk and concrete building slabs with dispersed landscaped areas.

Although landscaped areas exist within the vicinity of the off-site sampling locations, it is not anticipated that groundwater will be encountered during every day activities (e.g., gardening) as it is approximately 10 feet bgs and potable groundwater wells do not exist in the immediate area. Beyond the immediate vicinity of the study area, New York City groundwater is not used as drinking water.

A potential exposure pathway to CVOC-impacted groundwater and/or soil vapor exists in the event that subsurface work (i.e., investigation, excavation, etc.) is undertaken in this vicinity. Potential receptor populations include workers conducting subsurface investigations/activities and any visitors to the construction or drill site. Exposure could result from dermal absorption, inhalation and/or ingestion.

A potential exposure pathway to soil vapor exists within the buildings adjacent to the off-site sampling locations. The condition of the concrete building slabs is unknown, and it is unknown whether the building foundations include vapor barriers or soil vapor remediation systems (i.e., depressurization systems). Potential receptor populations include workers within the adjacent warehouses, residents of the nearby homes and visitors to any of the adjacent buildings. Exposure could result from inhalation.

5.0 ADJACENT PROPERTY USE

To evaluate potential exposure risks to neighboring properties, Langan contacted, via certified mail, multiple property owners to request a survey of their property and interview them or their representative. The letter indicated that the offered survey/interview could result in a request to collect concurrent 8-hour subsurface soil vapor and indoor air samples. On December 17, 2014, Langan issued letters via certified mail to three buildings located to the immediate north, west and south of the Site: 920 Essex Street, 465 Wortman Avenue and 482 Wortman Avenue, respectively. Upon submittal of this report, no responses have been received.

The adjacent property locations are shown on Figure 5. An example of the letter that was sent to adjacent properties via certified mail, certified mail receipts for each property, and delivery response slips from the property owners of 920 Essex Street and 465 Wortman Avenue are included in Appendix F.

Due to the lack of response, Langan conducted an investigation into the past uses of the properties. The results of this investigation indicated that all three properties had been previously used as factories and/or storage warehouses. The current use of each property continues to be industrial. A summary of these findings is included in Appendix F.

6.0 CONCLUSIONS

According to the analysis of the off-site data, the following conclusions were made:

- Groundwater Impacts: CVOCs and metals were detected in the groundwater above the TOGS Class GA AWQS. SVOC concentrations exceeding the TOGS Class GA AWQS were not detected.
 - o Concentrations of metals are considered to be indicative of background conditions and are not considered contaminants of concern (COC).
 - o Concentrations of the CVOCs 1,1,1-trichloroethane and 1,1-dichloroethane above their TOGS Class GA AWQS are not considered to have originated from the Site. This conclusion is based on the distances of these CVOc detections from the Site and that these compounds were not used at the Site.
 - o The CVOcs PCE and TCE and their daughter products, DCE and vinyl chloride, were detected at concentrations greater than their TOGS Class GA AWQS. An on-site source of contamination for PCE and TCE had previously been confirmed. As PCE and TCE travel through the groundwater, breakdown is anticipated, and therefore, the presence of DCE and vinyl chloride off-site was anticipated.
 - o The highest CVOc concentrations were detected in the shallow interval at MW013. Based on the fact that much lower concentrations of PCE and TCE were detected in off-site wells located between the Site source and MW013 at the intersection of Wortman Avenue and Linwood Street, it is assumed that the shallow MW013 CVOc groundwater concentrations are likely the combined result of an unidentified off-site source with a lesser impact from the Site source.
- Recommendation for Subsequent Off-Site Groundwater Monitoring

- o Subsequent off-site groundwater monitoring should exclude analysis of SVOCs and metals.
- Groundwater Exposure Pathways: The potential receptors identified by the Qualitative Human Health Exposure Assessment include workers conducting subsurface investigations or activities in the vicinity of the off-site monitoring wells and any visitors to the construction or drill site. Exposure pathways include dermal absorption, ingestion and inhalation. Exposure can be minimized by implementing the appropriate and regulatory-required health and safety procedures prior to implementing subsurface investigations.
- Soil Vapor Impacts: Analytical results identified the existence of petroleum and chlorinated solvent-related VOCs in the off-site subsurface soil.
 - o It is concluded that the petroleum-related VOCs (i.e. toluene and ethyl benzene) are more likely attributable to a nearby off-site source due to the fact that previous Site investigations did not reveal any known point sources of petroleum-related contaminants.
 - o The chlorinated-solvent related VOCs are attributed to soil vapor movement through the granular soils above the water table and CVOC volatilization at the water table. As with the groundwater impacts, the CVOCs apparent in the soil vapor cannot solely be attributed to the known on-site contamination, and it most likely includes concentrations relative to unknown off-site sources.
- Soil Vapor Exposure Pathways: The potential receptors identified by the Qualitative Human Health Exposure Assessment include workers conducting subsurface investigations in the area and any visitors to the construction or drill site as well as workers in the nearby buildings, residents of the nearby homes and visitors to each.

The anticipated exposure pathway is inhalation. During subsurface investigations, exposure can be minimized by implementing the appropriate and regulatory-

required health and safety procedures. The nature of the nearby building foundations is unknown and access was not granted to evaluate soil vapor exposure pathways.

- Adjacent Properties: Upon submittal of this report, access to the adjoining properties has not been granted. As such, Langan cannot confirm the presence of subsurface soil vapor intrusion at these properties.

Table 1
Off-Site Investigation Sample Summary
491 Wortman Avenue
Brooklyn, New York
Langan Project No. 170329301

Groundwater Samples					
Sample #	Sample Location	Sample ID	Date Sampled	Sample Type	Analyses
1	MW012	MW012-S	11/03/14	GW	TCL VOCs & SVOCs, TAL Metals
2		MW012-M	11/03/14	GW	TCL VOCs & SVOCs, TAL Metals
3		MW012-D	11/03/14	GW	TCL VOCs & SVOCs, TAL Metals
4	MW013	MW013-S	11/03/14	GW	TCL VOCs & SVOCs, TAL Metals
5		MW013-M	11/03/14	GW	TCL VOCs & SVOCs, TAL Metals
6		MW013-D	11/03/14	GW	TCL VOCs & SVOCs, TAL Metals
7		DUP01	11/03/14	GW	TCL VOCs & SVOCs, TAL Metals
8	MW014	MW014-S	11/03/14	GW	TCL VOCs & SVOCs, TAL Metals
9		MW014-M	11/04/14	GW	TCL VOCs & SVOCs, TAL Metals
10		MW014-D	11/04/14	GW	TCL VOCs & SVOCs, TAL Metals
11	MW015	MW015-S	11/04/14	GW	TCL VOCs & SVOCs, TAL Metals
12		MW015-M	11/04/14	GW	TCL VOCs & SVOCs, TAL Metals
13		MW015-D	11/04/14	GW	TCL VOCs & SVOCs, TAL Metals
14	MW016	MW016-S	11/04/14	GW	TCL VOCs & SVOCs, TAL Metals
15		MW016-M	11/04/14	GW	TCL VOCs & SVOCs, TAL Metals
16		MW016-D	11/04/14	GW	TCL VOCs & SVOCs, TAL Metals
17	N/A	FB01_11.04.14	11/04/14	QA/QC	TCL VOCs & SVOCs, TAL Metals
18	N/A	TB01	11/03/14	QA/QC	TCL VOCs
19	N/A	TB02	11/04/14	QA/QC	TCL VOCs
20	N/A	TB03	11/04/14	QA/QC	TCL VOCs
Soil Vapor Samples					
Sample #	Soil Vapor Point	Sample ID	Date Sampled	Sample Type	Analyses
1	SV004	SV004-11.04.14	11/04/14	Summa	VOCs (TO-15)
2	SV005	SV005-11.04.14	11/04/14	Summa	VOCs (TO-15)
3	SV006	SV006-11.04.14	11/04/14	Summa	VOCs (TO-15)
4	SV007	SV007-11.04.14	11/04/14	Summa	VOCs (TO-15)
5		DUP01-11-04.14	11/04/14	Summa	VOCs (TO-15)
6	SV008	SV008-11.04.14	11/04/14	Summa	VOCs (TO-15)
7	N/A	OA001-11.04.14	11/04/14	Summa	VOCs (TO-15)

Notes:

1. TCL = Target Compound List
2. VOC = Volatile Organic Compounds
3. SVOC = Semivolatile Organic Compounds
4. TAL = Target Analyte List
5. GW = Groundwater
6. DUP01 is a duplicate of MW013-D

Table 2 Summary of Groundwater Sample Analytical Results Off-Site Investigation 491 Wortman Avenue Brooklyn, New York Langan Project No. 170329301																					
Sample ID	NYSDEC TOGS Standards and Guidance Values - GA	MW012-S 14K0085-01 11/03/14	MW012-M 14K0085-02 11/03/14	MW012-D 14K0085-03 11/03/14	MW013-S 14K0085-04 11/03/14	MW013-M 14K0085-05 11/03/14	MW013-D 14K0085-06 11/03/14	DUP01 14K0085-10 11/03/14	MW014-S 14K0085-07 11/03/14	MW014-M 14K0115-01 11/04/14	MW014-D 14K0115-02 11/04/14	MW015-S 14K0085-08 11/03/14	MW015-M 14K0115-03 11/04/14	MW015-D 14K0115-04 11/04/14	MW016-S 14K0115-05 11/04/14	MW016-M 14K0197-01 11/04/14	MW016-D 14K0197-02 11/04/14	FB01_11.04.14 14K0115-06 11/04/14	TB01 14K0085-09 11/03/14	TB02 14K0115-07 11/04/14	TB03 14K0197-03 11/04/14
Volatile Organic Compounds (ug/l)																					
1,1,1-Trichloroethane	5	0.20 U	6.10	0.20 U	1.50	4.80	0.57	0.57	0.20 U	0.20 U	0.20 U	0.27 J	0.20 U	0.20 U	0.20 U	0.84	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1,2-Trichloroethane	1	0.20 U	0.20 U	0.20 U	0.76	0.21 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethane	5	0.20 U	0.77	0.20 U	6.40	2.30	0.20 U	0.20 U	0.20 U	0.22 J	0.20 U	0.20 U	0.56 J	0.20 U	0.20 U	0.62	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethylene	5	0.20 U	1.70	0.20 U	8.70	4	0.29 J	0.33 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.45 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2,3-Trichlorobenzene	5	NT	0.20 U	NT	NT	NT	NT	NT	NT	0.20 U	0.20 U	NT	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NT	0.20 U	0.20 U
1,2-Dichlorobenzene	3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.29 J	0.20 U	0.20 U	0.71	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,4-Dichlorobenzene	3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.42 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Acetone	50	2.20 U	2.40 U	1 U	1 U	1 U	1.20 U	1.30 U	1 U	1 U	1 U	1.70 U	1.70 U	1 U	1 U	1 U	1 U	1.70 U	1.50 U	2 U	1 U
Benzene	1	0.20 U	0.20 U	0.20 U	0.90	0.28 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Bromochloromethane	5	NT	0.20 U	NT	NT	NT	NT	NT	0.20 U	0.20 U	0.20 U	NT	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NT	0.20 U	0.20 U
Chlorobenzene	5	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.54	0.33 J	0.20 U	0.20 U	0.20 U	0.20 U
Chloroform	7	0.20 U	0.33 J	0.20 U	2	0.53	0.22 J	0.22 J	0.20 U	0.26 J	0.21 J	0.20 U	0.20 U	0.24 J	0.20 U	0.20 U	0.23 J	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethylene	5	0.20 U	6.80	0.30 J	58	24	0.43 J	0.48 J	0.48 J	3 J	0.40 J	0.20 U	1.20 J	0.32 J	1.30 J	0.75	0.39 J	0.20 U	0.20 U	0.20 U	0.20 U
Cyclohexane	~	NT	0.20 U	NT	NT	NT	NT	NT	NT	0.20 U	0.20 U	NT	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NT	0.20 U	0.20 U
Methyl tert-butyl ether (MTBE)	10	0.20 U	0.39 J	0.55	0.20 U	0.76	0.69	0.66	0.20 U	3.20	5.20	0.20 U	4.50	1.70	0.20 U	1.80	0.70	0.20 U	0.20 U	0.20 U	0.20 U
Methylcyclohexane	~	NT	0.20 U	NT	NT	NT	NT	NT	NT	0.20 U	0.20 U	NT	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NT	0.20 U	0.20 U
Methylene chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.50 J	2.30 U	2.80 U	1 U	1 U	1 U	2.80 U
o-Xylene	5	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.21 J	0.26 J	0.20 U	0.21 J	0.35 J	0.20 U	0.25 J	0.31 J	0.20 U	0.20 U	0.24 J	0.20 U	0.20 U	0.20 U	0.20 U
p- & m- Xylenes	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.67 J	0.50 U	0.55 J	0.60 J	0.50 U	0.50 U	0.53 J	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethylene	5	0.64	11	17	140	32	13	13	5.10	33	18	1.60	16	14	1.50	7.30	15	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethylene	5	0.20 U	0.20 U	0.20 U	0.79	0.20 U	0.20 U	0.20 U	0.20 U	0.25 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichloroethylene	5	2.50	78	7.20	1,300	240	7.40	7.40	4.30	37	7	0.43 J	4.70	2.40	0.74	1.30	0.98	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorofluoromethane	5	0.20 U	0.33 J	0.20 U	4.60	1.80	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vinyl Chloride	2	0.20 U	0.20 U	0.20 U	2.70	0.78	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes, Total	5	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.67 J	0.60 U	0.64 J	1 J	0.60 U	0.80 J	0.91 J	0.60 U	0.60 U	0.77 J	0.60 U	0.60 U	0.60 U	0.60 U
Semi-Volatile Organic Compounds (ug/l)																					
4-Bromophenyl phenyl ether	~	2.70 U	2.70 U	2.70 U	2.56 U	3.20 J	2.63 U	2.77 J	2.70 U	2.63 U	2.70 U	2.63 U	3.03 U	2.63 U	2.70 U	2.56 U	2.70 U	3.70 U	NT	NT	NT
Bis(2-ethylhexyl)phthalate	5	0.79 U	0.91 U	2.98 U	1.28 U	3.25 U	1.38 U	3.28 U	2.12 U	2.53 U	30.30 U	4.74 U	1.87 U	2.54 U	10.40 R	0.91 U	4.84 U	86.70	NT	NT	NT
Fluoranthene	50	0.054 U	0.054 U	0.054 U	0.072	0.051 U	0.053 U	0.053 U	0.054 U	0.053 U	0.054 U	0.053 U	0.061 U	0.053 U	0.054 U	0.051 U	0.054 U	0.074 U	NT	NT	NT
Pyrene	50	0.054 U	0.054 U	0.054 U	0.082	0.051 U	0.053 U	0.053 U	0.054 U	0.053 U	0.054 U	0.053 U	0.061 U	0.053 U	0.054 U	0.051 U	0.054 U	0.13	NT	NT	NT
Metals (Dissolved) (ug/l)																					
Barium	1000	121	59	71	120	59	68	69	83	123	134	115	92	76	197	76	40	10 U	NT	NT	NT
Calcium	~	111,000	99,900	103,000	115,000	101,000	92,100	92,800	69,700	99,300	101,000	128,000	105,000	84,100	88,100	107,000	83,600	50 U	NT	NT	NT
Cobalt	~	5 U	5 U	5 U	13	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	9	5 U	5 U	5 U	5 U	NT	NT
Copper	200	3 U	3 U	3 U	5	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	NT	NT
Iron	~	20 U	30	20 U	21	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	5,730	20 U	20 U	20 U	20 U	NT	NT
Magnesium	35000	11,300	18,800	23,600	21,100	27,900	47,600	48,200	10,900	26,600	32,600	19,200	23,900	38,000	8,460	23,400	250				

Table 3
Summary of Soil Vapor Sample Analytical Results
Off-Site Investigation
491 Wortman Avenue
Brooklyn, New York
Langan Project No. 170329301

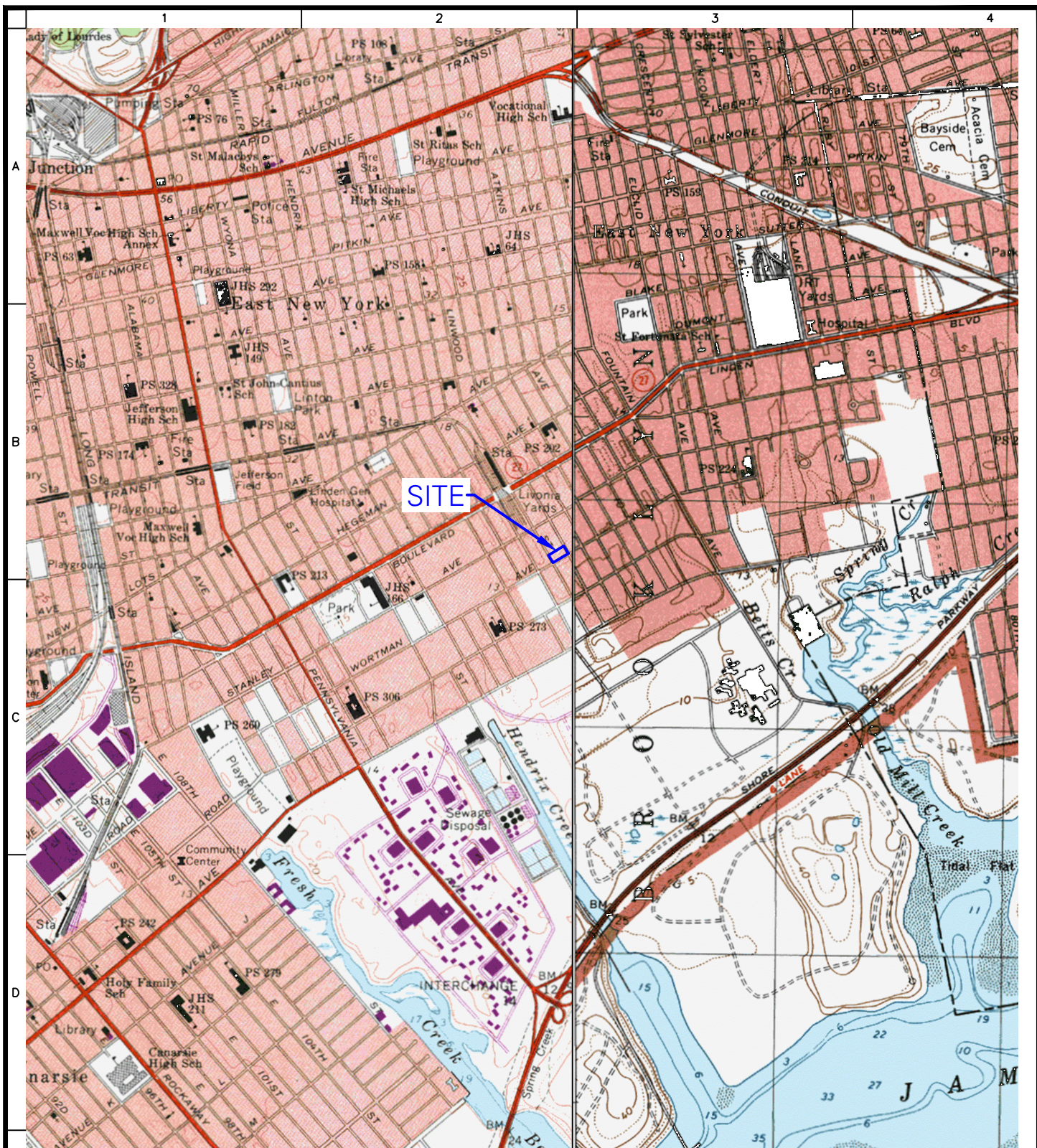
Sample ID	OA001-11.04.14		SV004-11.04.14		SV005-11.04.14		SV006-11.04.14		SV007-11.04.14		DUP01-11.04.14		SV008-11.04.14	
Laboratory ID	14K0115-13		14K0115-08		14K0115-09		14K0115-10		14K0115-11		14K0115-14		14K0115-12	
Sampling Date	11/04/14		11/04/14		11/04/14		11/04/14		11/04/14		11/04/14		11/04/14	
Volatile Organic Compounds (ug/m3)														
1,1,1-Trichloroethane	0.55	U	23	D	54	D	74	D	77	D	82	D	140	D
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.77	U	0.78	U	14	U	14	U	0.85	D	0.96	D	14	U
1,1-Dichloroethane	0.40	U	5.10	D	19	D	13	D	1.40	D	1.50	D	7.30	U
1,1-Dichloroethylene	0.40	U	3.30	D	33	D	7	U	0.40	U	0.45	U	7.10	U
1,2,4-Trimethylbenzene	0.49	U	31	D	22	D	220	D	17	D	15	D	33	D
1,2-Dichloropropane	0.46	U	0.47	U	8.60	U	13	D	0.47	U	0.53	U	8.30	U
1,3,5-Trimethylbenzene	0.49	U	8.20	D	9.20	D	370	D	5	D	3.90	D	38	D
1,4-Dichlorobenzene	0.60	U	0.61	U	11	U	11	U	0.61	U	2.10	D	11	U
2-Butanone	1.70		1.10	D	5.50	U	5.20	D	2	D	1.60	D	5.30	U
Acetone	11		10	D	14	D	57	D	21	D	19	D	6.80	D
Benzene	0.80		0.49	D	6	U	5.60	U	0.36	D	0.55	D	5.80	U
Carbon disulfide	0.31	U	15	D	17	D	6.10	D	17	D	17	D	34	D
Carbon tetrachloride	0.44		0.32	D	2.90	U	2.80	U	0.16	U	0.18	U	2.80	U
Chlorobenzene	0.46	U	0.47	U	8.60	U	8.10	U	0.47	U	0.84	D	8.30	U
Chloroform	0.49		9.90	D	9.10	U	8.60	U	3.80	D	4	D	11	D
Chloromethane	1.60		0.21	U	3.90	U	3.70	U	0.61	D	0.24	U	3.70	U
cis-1,2-Dichloroethylene	0.40	U	3.90	D	61	D	7	U	0.40	U	0.45	U	7.10	U
Cyclohexane	0.34	U	0.35	U	6.40	U	6.10	U	0.80	D	0.79	D	6.20	U
Dichlorodifluoromethane	2		2.50	D	9.20	U	8.70	U	2	D	2.30	D	8.90	U
Ethyl acetate	0.72	U	0.73	U	13	U	13	U	1.60	D	1	D	13	U
Ethyl Benzene	0.43	U	4.40	D	16	D	8.40	D	2.10	D	1.40	D	7.80	U
Isopropanol	2		0.80	D	9.20	U	8.70	U	1.10	J	2.40	J	8.80	U
Methyl tert-butyl ether (MTBE)	0.36	U	0.36	U	6.70	U	6.40	U	0.95	D	1	D	6.50	U
Methylene chloride	1.10		0.70	D	13	U	12	U	0.70	U	0.79	U	13	U
n-Heptane	0.86		0.54	D	7.70	U	8.70	D	0.58	D	0.66	D	7.40	U
n-Hexane	0.92		0.36	D	6.60	U	6.20	U	0.93	J	1.90	J	6.30	U
o-Xylene	0.43	U	12	D	53	D	140	D	5.60	D	4	D	36	D
p- & m- Xylenes	0.87	U	23	D	85	D	140	D	10	D	7.20	D	45	D
p-Ethyltoluene	0.49	U	22	D	17	D	73	D	11	D	9.20	D	19	D
Styrene	0.43	U	17	D	8	U	7.50	U	5.10	D	3.30	D	7.70	U
Tetrachloroethene (PCE)	1.20		130	D	500	D	110	D	210	D	250	D	390	D
Tetrahydrofuran	0.29	U	1.20	D	5.50	U	5.20	U	0.30	U	0.34	U	5.30	U
Toluene	1.80		3.80	D	7	U	8.70	D	2.90	D	2.20	D	6.80	D
Trichloroethene (TCE)	0.13	U	240	D	2,900	D	45	D	11	D	12	D	790	D
Trichlorofluoromethane (Freon 11)	1.50		8	D	47	D	9.90	U	3.60	D	3.90	D	10	U

Notes:

- Only detected compounds are shown in the table.
- ug/m3 = micrograms per cubic meter.
- DUP01-11.04.14 is a duplicate of SV007-11.04.14.
- Values in bold were detected above the laboratory reporting limit.

Qualifiers:

D = Result is from an analysis that required a dilution.
J = Analyte detected at or above method detection limit (MDL) but below reporting limit (RL) - data is estimated.
U = Analyte not detected at or above the laboratory reporting limit.



REFERENCE: USGS TOPOGRAPHIC MAPS FOR BROOKLYN AND JAMAICA QUADRANGLE.

LANGAN

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Langan Engineering, Environmental, Surveying and
Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan CT, Inc.
Langan International LLC
Collectively known as Langan

Project

**491 WORTMAN
AVENUE**

BLOCK No. 4384, LOT Nos. 31 & 36
BROOKLYN

KINGS

NEW YORK

Figure Title

**SITE LOCATION
MAP**

Project No.

170329301

Date

12/16/2014

Scale

1"=2000'

Drawn By

AT

Checked By

GN

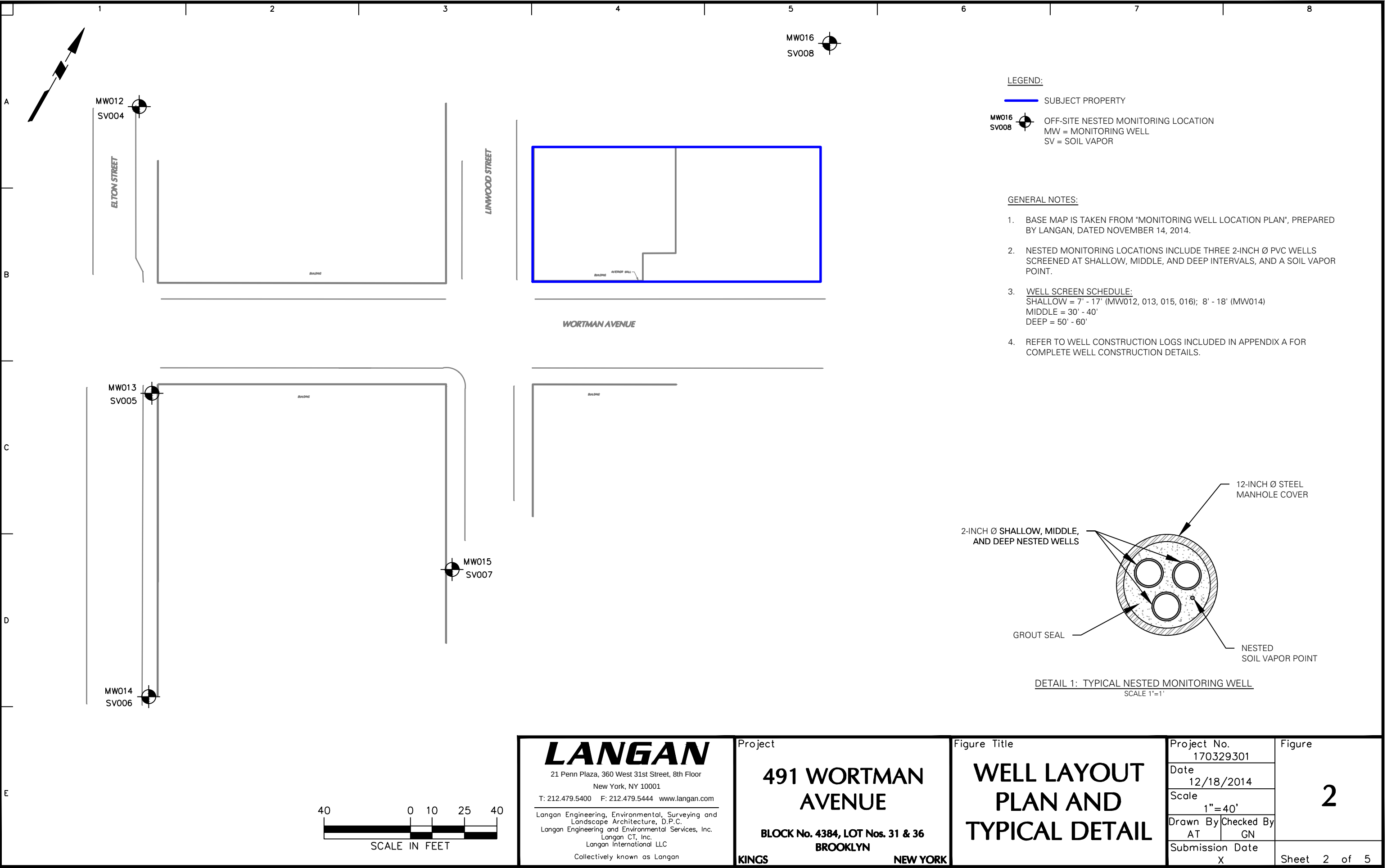
Submission Date

X

Figure

1

Sheet 1 of 5



LANGAN

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Langan Engineering, Environmental, Surveying and
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**491 WORTMAN
AVENUE**

**BLOCK No. 4384, LOT Nos. 31 & 36
BROOKLYN**

KINGS

NEW YORK

Figure Title

**WELL LAYOUT
PLAN AND
TYPICAL DETAIL**

Project No.

170329301

Date

12/18/2014

Scale

1"=40'

Drawn By

AT

Checked By

GN

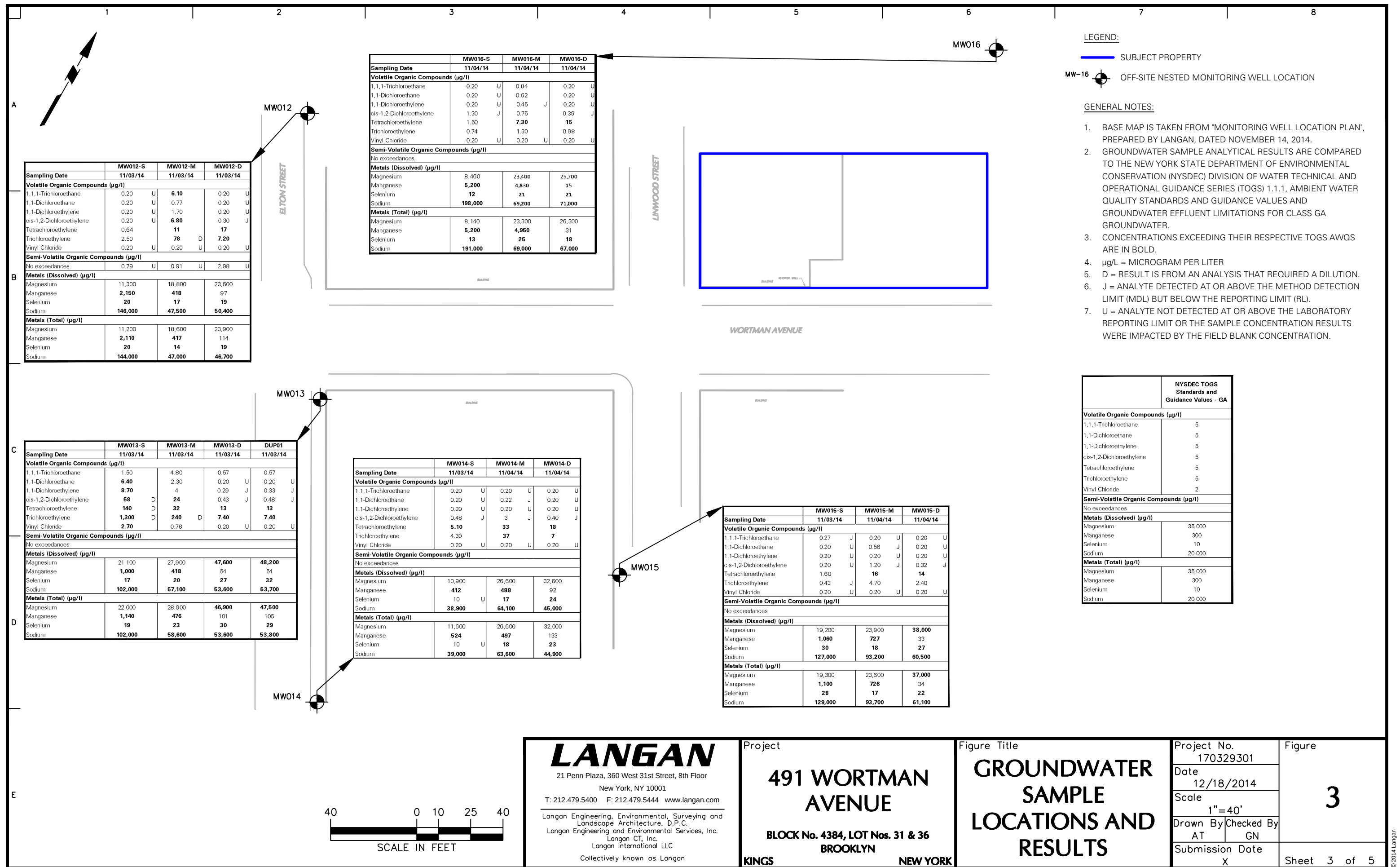
Submission Date

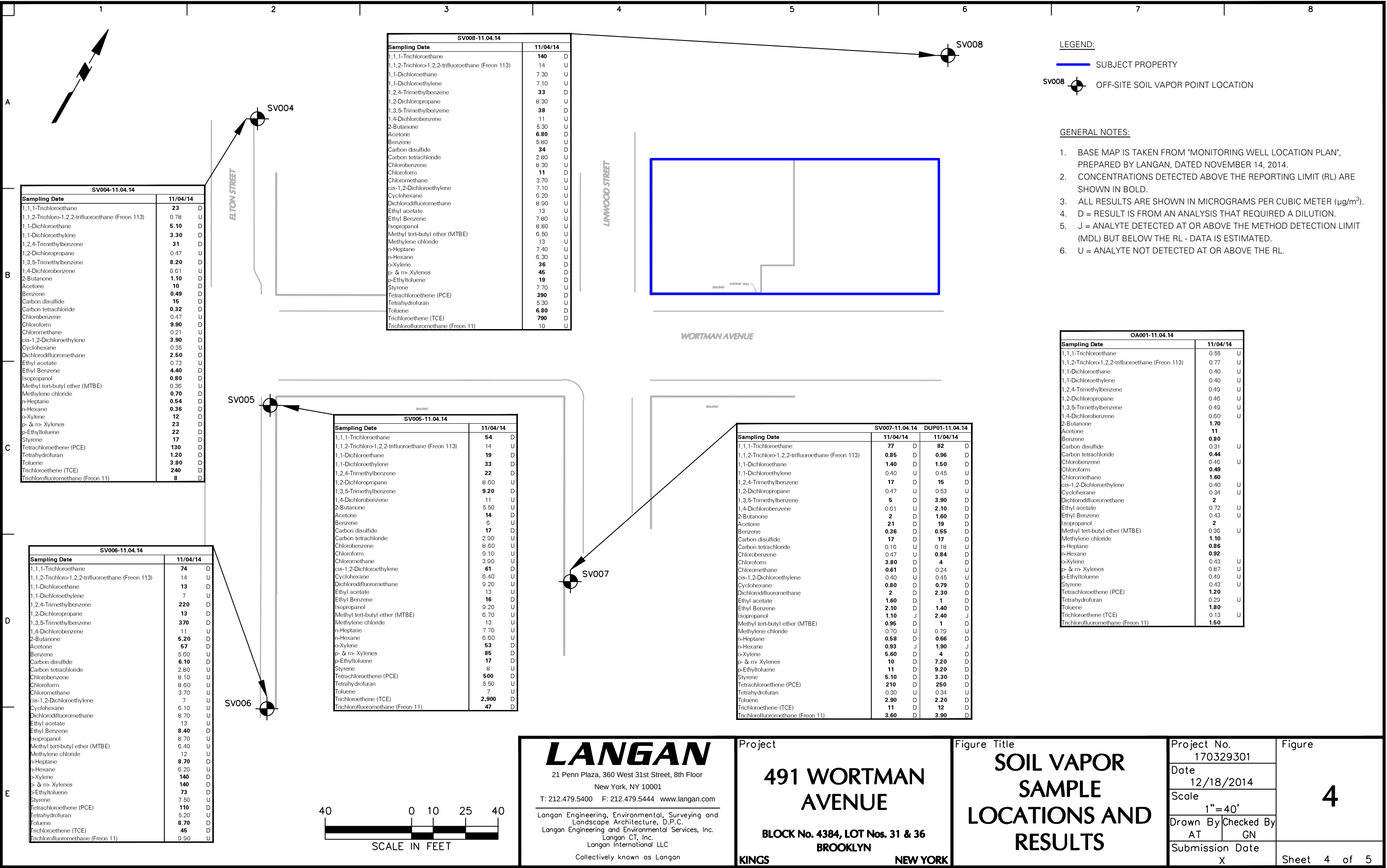
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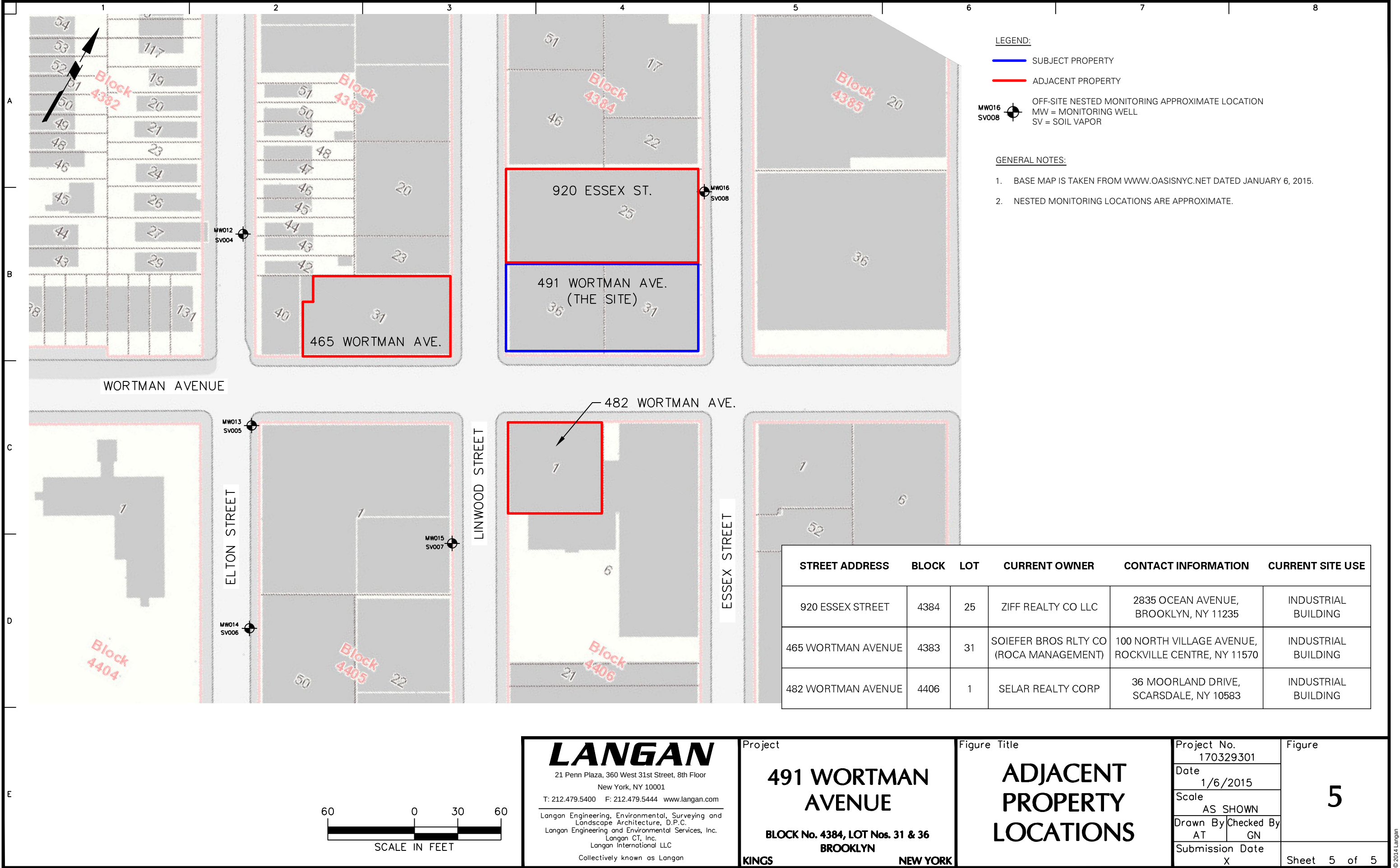
Figure

2

Sheet 2 of 5







WELL CONSTRUCTION SUMMARY

Well No. MW012

PROJECT	491 WORTMAN AVENUE	PROJECT NO.	170329301
LOCATION	BROOKLYN, NEW YORK	ELEVATION AND DATUM	
DRILLING AGENCY	AARCO	DATE STARTED	10/20/14
DRILLING EQUIPMENT	TRACK-MOUNTED GEOPROBE	DRILLER	TOM, NICK
SIZE AND TYPE OF BIT	6-5/8 INCH ID HOLLOW STEM AUGER	INSPECTOR	A. TASHJI

METHOD OF INSTALLATION: CUT 20 INCH SQUARE PAD INTO SIDEWALK. HAND CLEAR BORHOLE TO 5 FT BGS. HOLLOW STEM AUGERS ADVANCED TO A DEPTH OF 60 FT. NESTED WELLS WERE INSTALLED WITH SCREENS AT 50 FT - 60 FT, 30 FT - 40 FT, AND AT THE GW TABLE (7 FT - 17 FT). GW ENCOUNTERED AT A DEPTH OF APPROX. 11 FT BGS. SVP (SV004) INSTALLED AT A DEPTH OF 4.5 FT BGS W/IN NESTED WELL BOREHOLE. GROUT TO GRADE. WELL RECEIVED A 12 INCH MANHOLE SET IN A CONCRETE COLLAR.

METHOD OF WELL DEVELOPMENT

TYPE OF CASING	DIAMETER	TYPE OF BACKFILL MATERIAL
SCH 40 PVC	2 INCH	#2 MORIE SAND, #00 MORIE SAND, BENTONITE PELLETS, GROUT
TYPE OF SCREEN	DIAMETER	TYPE OF SEAL MATERIAL
SCH 40 PVC	2 INCH	1/4 INCH BENTONITE PELLETS
BOREHOLE DIAMETER		TYPE OF FILTER MATERIAL
6-5/8 INCH		#2 MORIE SAND
TOP OF CASING	ELEVATION	DEPTH (ft)
	0	
TOP OF SEAL	ELEVATION	DEPTH (ft)
	0	
TOP OF FILTER	ELEVATION	DEPTH (ft)
	0	
TOP OF SCREEN	ELEVATION	DEPTH (ft)
	0	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)
	0	
SCREEN LENGTH		
THREE, 10 FT INTERVALS		
SLOT SIZE		
0.010 INCH		
GROUNDWATER ELEVATIONS		
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER

SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	1'
	2'6"
	5'
	5'5"
	6'
	7'
	17'
	24'
	26'
	27'6"
	30'
	40'
	45'6"
	47'6"
	48'
	50'
	60'

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WELL CONSTRUCTION SUMMARY

Well No. MW013

PROJECT	491 WORTMAN AVENUE	PROJECT NO.	170329301
LOCATION	BROOKLYN, NEW YORK	ELEVATION AND DATUM	
DRILLING AGENCY	AARCO	DATE STARTED	10/17/14
		DATE FINISHED	10/17/2014
DRILLING EQUIPMENT	TRACK-MOUNTED GEOPROBE	DRILLER	TOM, NICK
SIZE AND TYPE OF BIT	6-5/8 INCH ID HOLLOW STEM AUGER	INSPECTOR	M. ROGERS

METHOD OF INSTALLATION: CUT 20 INCH SQUARE PAD INTO SIDEWALK. HAND CLEAR BORHOLE TO 5 FT BGS. HOLLOW STEM AUGERS ADVANCED TO A DEPTH OF 60 FT. NESTED WELLS WERE INSTALLED WITH SCREENS AT 50 FT - 60 FT, 30 FT - 40 FT, AND AT THE GW TABLE (7 FT - 17 FT). GW ENCOUNTERED AT A DEPTH OF APPROX. 9.5 FT BGS. SVP (SV005) INSTALLED AT A DEPTH OF 4.5 FT BGS W/IN NESTED WELL BOREHOLE. GROUT TO GRADE. WELL RECEIVED A 12 INCH MANHOLE SET IN A CONCRETE COLLAR.

METHOD OF WELL DEVELOPMENT

TYPE OF CASING	DIAMETER	TYPE OF BACKFILL MATERIAL
SCH 40 PVC	2 INCH	#2 MORIE SAND, #00 MORIE SAND, BENTONITE PELLETS, GROUT
TYPE OF SCREEN	DIAMETER	TYPE OF SEAL MATERIAL
SCH 40 PVC	2 INCH	1/4 INCH BENTONITE PELLETS
BOREHOLE DIAMETER		TYPE OF FILTER MATERIAL
6-5/8 INCH		#2 MORIE SAND
TOP OF CASING	ELEVATION	DEPTH (ft)
	0	
TOP OF SEAL	ELEVATION	DEPTH (ft)
	0	
TOP OF FILTER	ELEVATION	DEPTH (ft)
	0	
TOP OF SCREEN	ELEVATION	DEPTH (ft)
	0	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)
	0	
SCREEN LENGTH		
THREE, 10 FT INTERVALS		
SLOT SIZE		
0.010 INCH		
GROUNDWATER ELEVATIONS		
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER

SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	1'
	2'6"
	4'6"
	5'9"
	6'
	7'
	17'
	25'6"
	27'6"
	28'
	30'
	40'
	45'6"
	47'6"
	48'
	50'
	60'

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WELL CONSTRUCTION SUMMARY

Well No. MW014

PROJECT	491 WORTMAN AVENUE	PROJECT NO.	170329301
LOCATION	BROOKLYN, NEW YORK	ELEVATION AND DATUM	
DRILLING AGENCY	AARCO	DATE STARTED	10/10/14
DRILLING EQUIPMENT	TRACK-MOUNTED GEOPROBE	DRILLER	TOM, JOE
SIZE AND TYPE OF BIT	6-5/8 INCH ID HOLLOW STEM AUGER	INSPECTOR	A. TASHJI

METHOD OF INSTALLATION: CUT 20 INCH SQUARE PAD INTO SIDEWALK. HAND CLEAR BORHOLE TO 5 FT BGS. HOLLOW STEM AUGERS ADVANCED TO A DEPTH OF 60 FT. NESTED WELLS WERE INSTALLED WITH SCREENS AT 50 FT - 60 FT, 30 FT - 40 FT, AND AT THE GW TABLE (8 FT - 18 FT). GW ENCOUNTERED AT A DEPTH OF APPROX. 11 FT BGS. SVP (SV006) INSTALLED AT A DEPTH OF 5 FT BGS W/IN NESTED WELL BOREHOLE. GROUT TO GRADE. WELL RECEIVED A 12 INCH MANHOLE SET IN A CONCRETE COLLAR.

METHOD OF WELL DEVELOPMENT

TYPE OF CASING	DIAMETER	TYPE OF BACKFILL MATERIAL
SCH 40 PVC	2 INCH	#2 MORIE SAND, #00 MORIE SAND, BENTONITE PELLETS, GROUT
TYPE OF SCREEN	DIAMETER	TYPE OF SEAL MATERIAL
SCH 40 PVC	2 INCH	1/4 INCH BENTONITE PELLETS
BOREHOLE DIAMETER		TYPE OF FILTER MATERIAL
6-5/8 INCH		#2 MORIE SAND
TOP OF CASING	ELEVATION	DEPTH (ft)
	0	
TOP OF SEAL	ELEVATION	DEPTH (ft)
	0	
TOP OF FILTER	ELEVATION	DEPTH (ft)
	0	
TOP OF SCREEN	ELEVATION	DEPTH (ft)
	0	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)
	0	
SCREEN LENGTH		
THREE, 10 FT INTERVALS		
SLOT SIZE		
0.010 INCH		
GROUNDWATER ELEVATIONS		
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER

SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	1'6"
	2'6"
	4'6"
	6'
	8'
	18'
	25'
	27'6"
	28'
	30'
	40'
	45'6"
	47'6"
	48'
	50'
	60'

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WELL CONSTRUCTION SUMMARY

Well No. MW015

PROJECT	491 WORTMAN AVENUE	PROJECT NO.	170329301
LOCATION	BROOKLYN, NEW YORK	ELEVATION AND DATUM	
DRILLING AGENCY	AARCO	DATE STARTED	10/16/14
DRILLING EQUIPMENT	TRACK-MOUNTED GEOPROBE	DRILLER	CHUCK, TOM
SIZE AND TYPE OF BIT	6-5/8 INCH ID HOLLOW STEM AUGER	INSPECTOR	M. ROGERS

METHOD OF INSTALLATION: CUT 20 INCH SQUARE PAD INTO SIDEWALK. HAND CLEAR BORHOLE TO 5 FT BGS. HOLLOW STEM AUGERS ADVANCED TO A DEPTH OF 60 FT. NESTED WELLS WERE INSTALLED WITH SCREENS AT 50 FT - 60 FT, 30 FT - 40 FT, AND AT THE GW TABLE (7 FT - 17 FT). GW ENCOUNTERED AT A DEPTH OF APPROX. 9.5 FT BGS. SVP (SV007) INSTALLED AT A DEPTH OF 4.5 FT BGS W/IN NESTED WELL BOREHOLE. GROUT TO GRADE. WELL RECEIVED A 12 INCH MANHOLE SET IN A CONCRETE COLLAR.

METHOD OF WELL DEVELOPMENT

TYPE OF CASING	DIAMETER	TYPE OF BACKFILL MATERIAL
SCH 40 PVC	2 INCH	#2 MORIE SAND, #00 MORIE SAND, BENTONITE PELLETS, GROUT
TYPE OF SCREEN	DIAMETER	TYPE OF SEAL MATERIAL
SCH 40 PVC	2 INCH	1/4 INCH BENTONITE PELLETS
BOREHOLE DIAMETER		TYPE OF FILTER MATERIAL
6-5/8 INCH		#2 MORIE SAND
TOP OF CASING	ELEVATION	DEPTH (ft)
	0	
TOP OF SEAL	ELEVATION	DEPTH (ft)
	0	
TOP OF FILTER	ELEVATION	DEPTH (ft)
	0	
TOP OF SCREEN	ELEVATION	DEPTH (ft)
	0	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)
	0	
SCREEN LENGTH		
THREE, 10 FT INTERVALS		
SLOT SIZE		
0.010 INCH		
GROUNDWATER ELEVATIONS		
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER

SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	1'
	2'6"
	4'6"
	5'6"
	5'10"
	7'
	17'
	25'6"
	27'6"
	28'
	30'
	40'
	45'8"
	47'8"
	48'
	50'
	60'

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WELL CONSTRUCTION SUMMARY

Well No. MW016

PROJECT	491 WORTMAN AVENUE	PROJECT NO.	170329301
LOCATION	BROOKLYN, NEW YORK	ELEVATION AND DATUM	
DRILLING AGENCY	AARCO	DATE STARTED	10/09/14
DRILLING EQUIPMENT	TRACK-MOUNTED GEOPROBE	DRILLER	CHUCK, TOM
SIZE AND TYPE OF BIT	10 INCH OD HOLLOW STEM AUGER	INSPECTOR	A. TASHJI

METHOD OF INSTALLATION: CUT 20 INCH SQUARE PAD INTO SIDEWALK. HAND CLEAR BORHOLE TO 5 FT BGS. HOLLOW STEM AUGERS ADVANCED TO A DEPTH OF 60 FT. NESTED WELLS WERE INSTALLED WITH SCREENS AT 50 FT - 60 FT, 30 FT - 40 FT, AND AT THE GW TABLE (7 FT - 17 FT). GW ENCOUNTERED AT A DEPTH OF APPROX. 11 FT BGS. SVP (SV008) INSTALLED AT A DEPTH OF 4.5 FT BGS W/IN NESTED WELL BOREHOLE. GROUT TO GRADE. WELL RECEIVED A 12 INCH MANHOLE SET IN A CONCRETE COLLAR.

METHOD OF WELL DEVELOPMENT

TYPE OF CASING	DIAMETER	TYPE OF BACKFILL MATERIAL
SCH 40 PVC	2 INCH	#2 MORIE SAND, #00 MORIE SAND, BENTONITE PELLETS, GROUT
TYPE OF SCREEN	DIAMETER	TYPE OF SEAL MATERIAL
SCH 40 PVC	2 INCH	1/4 INCH BENTONITE PELLETS
BOREHOLE DIAMETER		TYPE OF FILTER MATERIAL
10 INCH		#2 MORIE SAND
TOP OF CASING	ELEVATION	DEPTH (ft)
	0	
TOP OF SEAL	ELEVATION	DEPTH (ft)
	0	
TOP OF FILTER	ELEVATION	DEPTH (ft)
	0	
TOP OF SCREEN	ELEVATION	DEPTH (ft)
	0	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)
	0	
SCREEN LENGTH		
THREE, 10 FT INTERVALS		
SLOT SIZE		
0.010 INCH		
GROUNDWATER ELEVATIONS		
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER
ELEVATION	DATE	DEPTH TO WATER

WELL DETAILS	SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
Cover		1'
		3'
		5'2"
		6'8"
		7'
		17'
		25'5"
		27'8"
		28'
		30'
		40'
		45'9"
		47'8"
		48'
		50'
		60'

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GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 491 Wortman Ave.

Well#/Location:	MW012 - Shallow
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Job No.	170329301
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Date: 11/3/14

Weather:	Sunny, 50's
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Sampling Personnel:	S. Donatich
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Well Information

Sample ID	MW012 - S
Well Depth (ft)	16.86
Screened Interval (ft)	
Casing Elevation (msl)	-
Casing Diameter (in)	2"
Depth to Water (ft)	9.1
Water Elevation (msl)	-
Casing Volume (gal)	
PID/FID Reading (ppm)	0.0 ppm

Purging Information

Purging Method	Horiba
Purging Rate (l/m; gpm)	
Start Purge Time	8:59
End Purge Time	
Volume Purged (gal)	11.0

Sampling Information

Sampling Method	Low flow
Start Sampling Time	9:58
End Sampling Time	10:04
Depth Before Sampling (ft)	9.18
Number Bottles Collected	7

[illegible]

Notes/Remarks	
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9:58: Sample MW012-S for TCL VOCs, TCL SVOC and total and dissolved (field filtered) TAL metals.

Pump intake at 12' below TOC.

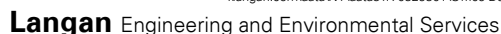


Site: 491 Wortman Ave.	Well#/Location: MW012 - Medium	Job No. 170329301
Date: 11/3/14	Weather: Sunny, 50's	Sampling Personnel: S. Donatich

Purging Information	
Purging Method	Horiba
Purging Rate (l/m; gpm)	
Start Purge Time	10:38
End Purge Time	11:27
Volume Purged (gal)	13.0

[illegible]

11:27: Sample MW012-M and MS/MSD for TCL VOCs and SVOC and total and dissolved (field filtered) TAL metals.
Pump intake at 35' below TOC.



GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 491 Wortman Ave.

Well#/Location:	MW012 - Deep
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Job No.	170329301
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Date: 11/3/14

Weather: Sunny, 50's

Sampling Personnel: S. Donatich

Well Information	
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Sample ID	MW012 - D
Well Depth (ft)	59.58
Screened Interval (ft)	
Casing Elevation (msl)	-
Casing Diameter (in)	2"
Depth to Water (ft)	8.93
Water Elevation (msl)	-
Casing Volume (gal)	
PID/FID Reading (ppm)	0.0 ppm

Purging Information

Purging Method	Horiba
Purging Rate (l/m; gpm)	
Start Purge Time	12:51
End Purge Time	13:51
Volume Purged (gal)	12.0

Sampling Information

Sampling Method	Low flow
Start Sampling Time	13:51
End Sampling Time	13:55
Depth Before Sampling (ft)	8.9
Number Bottles Collected	7

	Parameters
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[illegible]

Notes/Remarks	
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13:57: Sample MW012-D for TCL VOCs and SVOC and total and dissolved (field filtered) TAL metals.

Pump intake at 54.5' below TOC.



GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 491 Wortman Ave.

Well#/Location:	MW013 - Shallow
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Job No.	170329301
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Date: 11/3/14

Weather: Sunny, 50's

Sampling Personnel: K. Simmons / T. Schiefer

Well Information

Sample ID	MW013 - S
Well Depth (ft)	16.83
Screened Interval (ft)	
Casing Elevation (msl)	-
Casing Diameter (in)	2"
Depth to Water (ft)	9.06
Water Elevation (msl)	-
Casing Volume (gal)	1.27 gal
PID/FID Reading (ppm)	0.0 ppm

Purging Information

Purging Method	Low flow
Purging Rate (l/m; gpm)	
Start Purge Time	9:45
End Purge Time	10:30
Volume Purged (gal)	6.5

Sampling Information

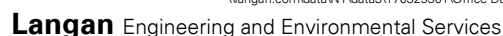
Sampling Method	Low flow
Start Sampling Time	10:30
End Sampling Time	10:35
Depth Before Sampling (ft)	9.13
Number Bottles Collected	7

	Parameters
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[illegible]

Notes/Remarks	
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Pump intake at 13' below TOC.



GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 491 Wortman Ave.

Well#/Location:	MW013 - Medium
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Job No.	170329301
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Date: 11/3/14

Weather: Sunny, 50's

Sampling Personnel: K. Simmons

Well Information	
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Sample ID	MW013 - M
Well Depth (ft)	39.88
Screened Interval (ft)	
Casing Elevation (msl)	-
Casing Diameter (in)	2'
Depth to Water (ft)	9.05
Water Elevation (msl)	-
Casing Volume (gal)	5.03
PID/FID Reading (ppm)	0.0 ppm

Purging Information

Purging Method	Low flow
Purging Rate (l/m; gpm)	
Start Purge Time	11:25
End Purge Time	12:10
Volume Purged (gal)	6.0

Sampling Information

Sampling Method	Low flow
Start Sampling Time	12:10
End Sampling Time	12:15
Depth Before Sampling (ft)	9.07
Number Bottles Collected	7

	Parameters
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[illegible]

Notes/Remarks	
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Pump intake at 35' below TOC.



GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 491 Wortman Ave.

Well#/Location:	MW013 - Deep
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Job No.	170329301
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Date: 11/3/14

Weather: Sunny, 50's

Sampling Personnel: K. Simmons

Well Information

Sample ID	MW013 - D
Well Depth (ft)	59.97
Screened Interval (ft)	
Casing Elevation (msl)	-
Casing Diameter (in)	2"
Depth to Water (ft)	9.04
Water Elevation (msl)	-
Casing Volume (gal)	8.31
PID/FID Reading (ppm)	0.0 ppm

Purging Information

Purging Method	Low flow
Purging Rate (l/m; gpm)	
Start Purge Time	13:00
End Purge Time	13:40
Volume Purged (gal)	5.0

Sampling Information

Sampling Method	Low flow
Start Sampling Time	13:40
End Sampling Time	13:45
Depth Before Sampling (ft)	9.04
Number Bottles Collected	7

	Parameters
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[illegible]

Notes/Remarks	
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Pump intake at 55' below TOC.

DUP01 was collected at 13:45



GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 491 Wortman Ave.

Well#/Location:	MW014 - Shallow
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Job No.	170329301
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Date: 11/3/14

Weather: Sunny, 50's

Sampling Personnel: S. Donatich / T. Schiefer

Well Information

Sample ID	MW014 - S
Well Depth (ft)	17.58
Screened Interval (ft)	
Casing Elevation (msl)	-
Casing Diameter (in)	2"
Depth to Water (ft)	9.85
Water Elevation (msl)	-
Casing Volume (gal)	-
PID/FID Reading (ppm)	0.0 ppm

Purging Information

Purging Method	Low flow
Purging Rate (l/m; gpm)	
Start Purge Time	14:59
End Purge Time	15:57
Volume Purged (gal)	12.0

Sampling Information

Sampling Method	Low flow
Start Sampling Time	15:57
End Sampling Time	16:00
Depth Before Sampling (ft)	9.91
Number Bottles Collected	7

	Parameters
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[illegible]

Notes/Remarks	
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15:57: Sample MW014-S for TCL VOCs, SVOCs and TAL metals (dissolved and total).

Pump intake at 12' below TOC.



GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 491 Wortman Ave.

Well#/Location:	MW014 - Medium
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Job No.	170329301
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Date: 11/3/14

Weather: Sunny, 50's

Sampling Personnel: T. Schiefer

[illegible]

Sample ID	MW014 - M
Well Depth (ft)	38.06
Screened Interval (ft)	
Casing Elevation (msl)	-
Casing Diameter (in)	2'
Depth to Water (ft)	9.9
Water Elevation (msl)	-
Casing Volume (gal)	-
PID/FID Reading (ppm)	0.0 ppm

Purging Information

Purging Method	Low flow
Purging Rate (l/m; gpm)	
Start Purge Time	9:10
End Purge Time	9:30
Volume Purged (gal)	12.0

Sampling Information

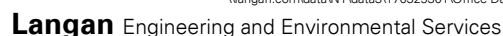
Sampling Method	Low flow
Start Sampling Time	10:00
End Sampling Time	10:10
Depth Before Sampling (ft)	9.95
Number Bottles Collected	7

	Parameters
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[illegible]

Notes/Remarks	
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Pump intake at 33' below TOC.



Site: 491 Wortman Ave.		Well#/Location: MW014 - D		Job No. 170329301				
Date: 11/3/14		Weather: Sunny, 50's		Sampling Personnel: T. Schiefer				
Well Information				Purging Information				
Sample ID	MW014 - D			Purging Method	Low flow			
Well Depth (ft)	57.8			Purging Rate (l/m; gpm)				
Screened Interval (ft)				Start Purge Time	11:20			
Casing Elevation (msl)	-			End Purge Time	12:20			
Casing Diameter (in)	2"			Volume Purged (gal)	6.0			
Depth to Water (ft)	9.9							
Water Elevation (msl)	-							
Casing Volume (gal)	-							
PID/FID Reading (ppm)	0.0 ppm							
				Sampling Information				
				Sampling Method	Low flow			
				Start Sampling Time	12:00			
				End Sampling Time	12:05			
				Depth Before Sampling (ft)	9.91			
				Number Bottles Collected	7			
Parameters								
Sample Time	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft)	Purged Volume (gallons)
11:20								
11:25	7.14	0.88	12.3	1.58	18.72	257	9.90	1.0
11:30	7.07	1.07	4.4	0.57	18.33	247	9.90	2.0
11:35	7.06	1.08	4.4	0.45	18.34	240	9.91	3.0
11:40	7.05	1.09	5.3	0.39	18.11	233	9.91	3.5
11:45	7.05	1.09	4.4	0.32	18.07	219	9.91	4.0
11:50	7.05	1.09	4	0.34	17.92	209	9.91	5.0
11:55	7.07	1.06	3.7	0.37	18.89	194	9.91	5.5
12:00	Sample							6.0
Notes/Remarks								
Pump intake at 53' below TOC.								



GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 491 Wortman Ave.

Well#/Location:	MW015 - S
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MW015 - S

Job No.	170329301
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170329301

Date: 11/3/14

Weather: Sunny, 50's

Sunny, 50's

Sampling Personnel: K. Simmons

Well Information

Sample ID	MW015 - S
Well Depth (ft)	17.35
Screened Interval (ft)	
Casing Elevation (msl)	-
Casing Diameter (in)	2"
Depth to Water (ft)	9.27
Water Elevation (msl)	-
Casing Volume (gal)	3.92
PID/FID Reading (ppm)	0.0 ppm

Purging Information

Purging Method	Low flow
Purging Rate (l/m; gpm)	
Start Purge Time	15:05
End Purge Time	15:45
Volume Purged (gal)	5.0

Sampling Information

Sampling Method	Low flow
Start Sampling Time	15:45
End Sampling Time	15:50
Depth Before Sampling (ft)	9.3
Number Bottles Collected	7

	Parameters
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[illegible]

Notes/Remarks	
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Pump intake at 15' below TOC.



GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 491 Wortman Ave.

Well#/Location:	MW015 - M
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Job No.	170329301
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Date: 11/3/14

Weather: Sunny, 50's

Sampling Personnel: S. Donatich

Well Information

Sample ID	MW015 - M
Well Depth (ft)	40.54
Screened Interval (ft)	
Casing Elevation (msl)	-
Casing Diameter (in)	2"
Depth to Water (ft)	9.26
Water Elevation (msl)	-
Casing Volume (gal)	
PID/FID Reading (ppm)	0.1 ppm

Purging Information

Purging Method	Low flow
Purging Rate (l/m; gpm)	
Start Purge Time	8:49
End Purge Time	9:46
Volume Purged (gal)	8.0

Sampling Information

Sampling Method	Low flow
Start Sampling Time	9:48
End Sampling Time	9:53
Depth Before Sampling (ft)	9.26
Number Bottles Collected	7

	Parameters
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[illegible]

Notes/Remarks	
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Pump intake at 34.5' below TOC.



GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 491 Wortman Ave.

Well#/Location:	MW015 - D
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Job No.	170329301
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Date: 11/3/14

Weather: Sunny, 50's

Sampling Personnel: K. Simmons

Well Information

Sample ID	MW015 - D
Well Depth (ft)	59.51
Screened Interval (ft)	
Casing Elevation (msl)	-
Casing Diameter (in)	2'
Depth to Water (ft)	9.24
Water Elevation (msl)	-
Casing Volume (gal)	
PID/FID Reading (ppm)	0.0 ppm

Purging Information

Purging Information	
Purging Method	Low flow
Purging Rate (l/m; gpm)	
Start Purge Time	11:49
End Purge Time	
Volume Purged (gal)	

Sampling Information

Sampling Method	Low flow
Start Sampling Time	12:40
End Sampling Time	12:45
Depth Before Sampling (ft)	
Number Bottles Collected	7

	Parameters
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[illegible]

Notes/Remarks	
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12:40: Sample MW015-D analysed for TCL VOCs, SVOCs and TAL dissolved and total metals.

Pump intake at 55' below TOC.



GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 491 Wortman Ave.

Well#/Location:	MW016 - S
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Job No.	170329301
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Date: 11/3/14

Weather: Sunny, 50's

Sampling Personnel: T. Schiefer

Well Information

Sample ID	MW016 - S
Well Depth (ft)	17.39
Screened Interval (ft)	
Casing Elevation (msl)	-
Casing Diameter (in)	2"
Depth to Water (ft)	10.03
Water Elevation (msl)	-
Casing Volume (gal)	
PID/FID Reading (ppm)	0.0 ppm

Purging Information

Purging Method	Low flow
Purging Rate (l/m; gpm)	
Start Purge Time	13:30
End Purge Time	14:05
Volume Purged (gal)	6.5

Sampling Information

Sampling Method	Low flow
Start Sampling Time	14:05
End Sampling Time	14:10
Depth Before Sampling (ft)	10.69
Number Bottles Collected	7

	Parameters
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[illegible]

Notes/Remarks	
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14:05: Sampled MW016-S taken.

Pump intake at 12' below TOC.



GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 491 Wortman Ave.

Well#/Location:	MW016 - M
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Job No.	170329301
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Date: 11/3/14

Weather: Sunny, 50's

Sampling Personnel: S. Donatich

Well Information

Sample ID	MW016 - M
Well Depth (ft)	40.91
Screened Interval (ft)	
Casing Elevation (msl)	-
Casing Diameter (in)	2"
Depth to Water (ft)	10.67
Water Elevation (msl)	-
Casing Volume (gal)	
PID/FID Reading (ppm)	0.0 ppm

Purging Information

Purging Method	Low flow
Purging Rate (l/m; gpm)	
Start Purge Time	15:30
End Purge Time	16:30
Volume Purged (gal)	9.0

Sampling Information

Sampling Method	Low flow
Start Sampling Time	16:30
End Sampling Time	16:35
Depth Before Sampling (ft)	10.68
Number Bottles Collected	7

	Parameters
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[illegible]

Notes/Remarks	
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16:30: MW016-M sampled for TCL VOCs, SVOCs and TAL total and dissolved metals.

Pump intake at 35' below TOC.



GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 491 Wortman Ave.

Well#/Location:	MW016 - D
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Job No.	170329301
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Date: 11/3/14

Weather:	Sunny, 50's
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Sampling Personnel: K. Simmons

Well Information

Sample ID	MW016 - D
Well Depth (ft)	60.44
Screened Interval (ft)	
Casing Elevation (msl)	-
Casing Diameter (in)	2"
Depth to Water (ft)	10.42
Water Elevation (msl)	-
Casing Volume (gal)	
PID/FID Reading (ppm)	0.0 ppm

Purging Information

Purging Method	Low flow
Purging Rate (l/m; gpm)	
Start Purge Time	15:50
End Purge Time	16:50
Volume Purged (gal)	6.0

Sampling Information

Sampling Method	Low flow
Start Sampling Time	16:50
End Sampling Time	16:55
Depth Before Sampling (ft)	10.42
Number Bottles Collected	7

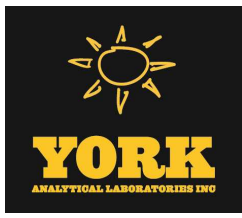
	Parameters
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[illegible]

Notes/Remarks	
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16:50: MW016-D sample taken.





Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Gerald Nicholls

Report Date: 11/12/2014

Client Project ID: 170329301

York Project (SDG) No.: 14K0085

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 11/12/2014
Client Project ID: 170329301
York Project (SDG) No.: 14K0085

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Gerald Nicholls

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 04, 2014 and listed below. The project was identified as your project: **170329301**.

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>
14K0085-01	MW012-S	Water	11/03/2014	11/04/2014
14K0085-02	MW012-M	Water	11/03/2014	11/04/2014
14K0085-03	MW012-D	Water	11/03/2014	11/04/2014
14K0085-04	MW013-S	Water	11/03/2014	11/04/2014
14K0085-05	MW013-M	Water	11/03/2014	11/04/2014
14K0085-06	MW013-D	Water	11/03/2014	11/04/2014
14K0085-07	MW014-S	Water	11/03/2014	11/04/2014
14K0085-08	MW015-S	Water	11/03/2014	11/04/2014
14K0085-09	TB01	Water	11/03/2014	11/04/2014
14K0085-10	DUP01	Water	11/03/2014	11/04/2014

General Notes for York Project (SDG) No.: 14K0085

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

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 11/12/2014





Sample Information

Client Sample ID: MW012-S

York Sample ID: 14K0085-01

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 9:58 am

Date Received

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
67-64-1	Acetone	2.2	Cal-E, CCV-E, B	ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS



Sample Information

Client Sample ID: MW012-S

York Sample ID: 14K0085-01

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 9:58 am

Date Received

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
127-18-4	Tetrachloroethylene	0.64		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
79-01-6	Trichloroethylene	2.5		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/08/2014 16:59	11/09/2014 01:43	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	110 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	95.7 %	79-122								
2037-26-5	Surrogate: Toluene-d8	104 %	81-117								



Sample Information

Client Sample ID: MW012-S

York Sample ID: 14K0085-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0085

170329301

Water

November 3, 2014 9:58 am

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
98-86-2	Acetophenone	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
62-53-3	Aniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
120-12-7	Anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
1912-24-9	Atrazine	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
100-52-7	Benzaldehyde	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
92-87-5	Benzidine	ND		ug/L	10.8	21.6	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
65-85-0	Benzoic acid	ND		ug/L	27.0	54.1	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
105-60-2	Caprolactam	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
86-74-8	Carbazole	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
132-64-9	Dibenzofuran	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH



Sample Information

Client Sample ID: MW012-S

York Sample ID: 14K0085-01

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 9:58 am

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
117-81-7	Bis(2-ethylhexyl)phthalate	0.789	B	ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
206-44-0	Fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0216	0.0216	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
67-72-1	Hexachloroethane	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
78-59-1	Isophorone	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
95-48-7	2-Methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
98-95-3	Nitrobenzene	ND		ug/L	0.270	0.270	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.270	0.270	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
85-01-8	Phenanthrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH



Sample Information

Client Sample ID: MW012-S

York Sample ID: 14K0085-01

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 9:58 am

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
129-00-0	Pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 14:57	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 17:53	KH
Surrogate Recoveries		Result		Acceptance Range							
367-12-4	Surrogate: 2-Fluorophenol	26.0 %									
4165-62-2	Surrogate: Phenol-d5	14.7 %									
4165-60-0	Surrogate: Nitrobenzene-d5	66.2 %									
321-60-8	Surrogate: 2-Fluorobiphenyl	58.8 %									
118-79-6	Surrogate: 2,4,6-Tribromophenol	98.5 %									
1718-51-0	Surrogate: Terphenyl-d14	102 %									

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7440-39-3	Barium	0.117		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7440-70-2	Calcium	109		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7439-89-6	Iron	0.056		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7439-95-4	Magnesium	11.2		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7439-96-5	Manganese	2.11		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7440-09-7	Potassium	14.9		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7782-49-2	Selenium	0.020		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW



Sample Information

Client Sample ID: MW012-S

York Sample ID: 14K0085-01

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 9:58 am

Date Received

11/04/2014

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	144		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW
7440-66-6	Zinc	0.010		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:27	MW

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-39-3	Barium	0.121		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-70-2	Calcium	111		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7439-95-4	Magnesium	11.3		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7439-96-5	Manganese	2.15		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-09-7	Potassium	14.9		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7782-49-2	Selenium	0.020		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-23-5	Sodium	146		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW
7440-66-6	Zinc	0.011		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:38	MW



Sample Information

Client Sample ID: MW012-S

York Sample ID: 14K0085-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0085

170329301

Water

November 3, 2014 9:58 am

11/04/2014

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Sample Information

Client Sample ID: MW012-M

York Sample ID: 14K0085-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0085

170329301

Water

November 3, 2014 11:27 am

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
71-55-6	1,1,1-Trichloroethane	6.1		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
75-34-3	1,1-Dichloroethane	0.77		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
75-35-4	1,1-Dichloroethylene	1.7		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS



Sample Information

Client Sample ID: MW012-M

York Sample ID: 14K0085-02

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 11:27 am

Date Received

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
67-64-1	Acetone	2.4	Cal-E, CCV-E, B	ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
67-66-3	Chloroform	0.33	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
156-59-2	cis-1,2-Dichloroethylene	6.8		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	0.39	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS



Sample Information

Client Sample ID: MW012-M

York Sample ID: 14K0085-02

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 11:27 am

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
127-18-4	Tetrachloroethylene	11		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
79-01-6	Trichloroethylene	78		ug/L	2.0	5.0	10	EPA 8260C	11/08/2014 16:59	11/10/2014 15:31	SS
75-69-4	Trichlorofluoromethane	0.33	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:17	SS
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %		69-130							
460-00-4	Surrogate: p-Bromofluorobenzene	95.1 %		79-122							
2037-26-5	Surrogate: Toluene-d8	93.5 %		81-117							

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
98-86-2	Acetophenone	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
62-53-3	Aniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
120-12-7	Anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
1912-24-9	Atrazine	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
100-52-7	Benzaldehyde	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
92-87-5	Benzidine	ND		ug/L	10.8	21.6	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
65-85-0	Benzoic acid	ND		ug/L	27.0	54.1	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH



Sample Information

Client Sample ID: MW012-M

York Sample ID: 14K0085-02

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 11:27 am

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-51-6	Benzyl alcohol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
105-60-2	Caprolactam	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
86-74-8	Carbazole	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
132-64-9	Dibenzofuran	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
117-81-7	Bis(2-ethylhexyl)phthalate	0.908	B	ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
206-44-0	Fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH



Sample Information

Client Sample ID: MW012-M

York Sample ID: 14K0085-02

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 11:27 am

Date Received

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-74-1	Hexachlorobenzene	ND		ug/L	0.0216	0.0216	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
67-72-1	Hexachloroethane	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
78-59-1	Isophorone	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
95-48-7	2-Methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
98-95-3	Nitrobenzene	ND		ug/L	0.270	0.270	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.270	0.270	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
85-01-8	Phenanthrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
108-95-2	Phenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
129-00-0	Pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 09:22	11/11/2014 15:28	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 09:22	11/11/2014 18:25	KH
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	29.3 %	10-47								
4165-62-2	Surrogate: Phenol-d5	22.3 %	10-37								
4165-60-0	Surrogate: Nitrobenzene-d5	67.1 %	10-109								
321-60-8	Surrogate: 2-Fluorobiphenyl	60.4 %	10-97								
118-79-6	Surrogate: 2,4,6-Tribromophenol	87.7 %	10-112								
1718-51-0	Surrogate: Terphenyl-d14	99.7 %	10-137								



Sample Information

Client Sample ID: MW012-M

York Sample ID: 14K0085-02

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 11:27 am

Date Received
11/04/2014

Metals, Target Analyte

Sample Prepared by Method: EPA 3010A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-39-3	Barium	0.060		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-70-2	Calcium	99.5		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7439-95-4	Magnesium	18.6		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7439-96-5	Manganese	0.417		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-09-7	Potassium	5.98		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7782-49-2	Selenium	0.014		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-23-5	Sodium	47.0		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW
7440-66-6	Zinc	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:32	MW

Metals, Target Analyte, Dissolved

Sample Prepared by Method: EPA 3010A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-39-3	Barium	0.059		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-70-2	Calcium	99.9		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW



Sample Information

Client Sample ID: MW012-M

York Sample ID: 14K0085-02

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 11:27 am

Date Received
11/04/2014

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	0.030		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7439-95-4	Magnesium	18.8		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7439-96-5	Manganese	0.418		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-09-7	Potassium	6.03		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7782-49-2	Selenium	0.017		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-23-5	Sodium	47.5		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW
7440-66-6	Zinc	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 22:43	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Sample Information

Client Sample ID: MW012-D

York Sample ID: 14K0085-03

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 1:51 pm

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS



Sample Information

Client Sample ID: MW012-D

York Sample ID: 14K0085-03

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 1:51 pm

Date Received

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
156-59-2	cis-1,2-Dichloroethylene	0.30	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS



Sample Information

Client Sample ID: MW012-D

York Sample ID: 14K0085-03

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 1:51 pm

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	0.55		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
127-18-4	Tetrachloroethylene	17		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
79-01-6	Trichloroethylene	7.2		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/08/2014 16:59	11/09/2014 02:50	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	91.1 %	79-122								
2037-26-5	Surrogate: Toluene-d8	101 %	81-117								



Sample Information

Client Sample ID: MW012-D

York Sample ID: 14K0085-03

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 1:51 pm

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
98-86-2	Acetophenone	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
62-53-3	Aniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
120-12-7	Anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
1912-24-9	Atrazine	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
100-52-7	Benzaldehyde	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
92-87-5	Benzidine	ND		ug/L	10.8	21.6	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
65-85-0	Benzoic acid	ND		ug/L	27.0	54.1	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
105-60-2	Caprolactam	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
86-74-8	Carbazole	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
132-64-9	Dibenzofuran	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH



Sample Information

Client Sample ID: MW012-D

York Sample ID: 14K0085-03

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 1:51 pm

Date Received

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
117-81-7	Bis(2-ethylhexyl)phthalate	2.98	B	ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
206-44-0	Fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0216	0.0216	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
67-72-1	Hexachloroethane	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
78-59-1	Isophorone	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
95-48-7	2-Methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
98-95-3	Nitrobenzene	ND		ug/L	0.270	0.270	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.270	0.270	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
85-01-8	Phenanthrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH



Sample Information

Client Sample ID: MW012-D

York Sample ID: 14K0085-03

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 1:51 pm

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
129-00-0	Pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 15:58	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:57	KH
Surrogate Recoveries		Result		Acceptance Range							
367-12-4	Surrogate: 2-Fluorophenol	43.8 %									
4165-62-2	Surrogate: Phenol-d5	23.7 %									
4165-60-0	Surrogate: Nitrobenzene-d5	87.0 %									
321-60-8	Surrogate: 2-Fluorobiphenyl	84.8 %									
118-79-6	Surrogate: 2,4,6-Tribromophenol	106 %									
1718-51-0	Surrogate: Terphenyl-d14	95.5 %									

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7440-39-3	Barium	0.075		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7440-70-2	Calcium	106		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7439-89-6	Iron	0.224		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7439-95-4	Magnesium	23.9		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7439-96-5	Manganese	0.114		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7440-09-7	Potassium	5.37		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7782-49-2	Selenium	0.019		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW



Sample Information

Client Sample ID: MW012-D

York Sample ID: 14K0085-03

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

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November 3, 2014 1:51 pm

Date Received

11/04/2014

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	46.7		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW
7440-66-6	Zinc	0.012		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:50	MW

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-39-3	Barium	0.071		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-70-2	Calcium	103		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7439-95-4	Magnesium	23.6		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7439-96-5	Manganese	0.097		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-09-7	Potassium	5.29		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7782-49-2	Selenium	0.019		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-23-5	Sodium	50.4		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW
7440-66-6	Zinc	0.010		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:01	MW



Sample Information

Client Sample ID: MW012-D

York Sample ID: 14K0085-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0085

170329301

Water

November 3, 2014 1:51 pm

11/04/2014

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Sample Information

Client Sample ID: MW013-S

York Sample ID: 14K0085-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0085

170329301

Water

November 3, 2014 10:35 am

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
71-55-6	1,1,1-Trichloroethane	1.5		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
79-00-5	1,1,2-Trichloroethane	0.76		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
75-34-3	1,1-Dichloroethane	6.4		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
75-35-4	1,1-Dichloroethylene	8.7		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS



Sample Information

Client Sample ID: MW013-S

York Sample ID: 14K0085-04

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 10:35 am

Date Received

11/04/2014

Volatile Organics, 8260 - Comprehensive

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
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
71-43-2	Benzene	0.90		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
67-66-3	Chloroform	2.0		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
156-59-2	cis-1,2-Dichloroethylene	58		ug/L	2.0	5.0	10	EPA 8260C	11/08/2014 16:59	11/10/2014 16:04	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS



Sample Information

Client Sample ID: MW013-S

York Sample ID: 14K0085-04

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 10:35 am

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
127-18-4	Tetrachloroethylene	140		ug/L	2.0	5.0	10	EPA 8260C	11/08/2014 16:59	11/10/2014 16:04	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
156-60-5	trans-1,2-Dichloroethylene	0.79		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
79-01-6	Trichloroethylene	1300		ug/L	20	50	100	EPA 8260C	11/08/2014 16:59	11/10/2014 16:37	SS
75-69-4	Trichlorofluoromethane	4.6		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
75-01-4	Vinyl Chloride	2.7		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:24	SS
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	113 %		69-130							
460-00-4	Surrogate: p-Bromofluorobenzene	102 %		79-122							
2037-26-5	Surrogate: Toluene-d8	103 %		81-117							

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
98-86-2	Acetophenone	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
62-53-3	Aniline	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
1912-24-9	Atrazine	ND		ug/L	0.513	0.513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
100-52-7	Benzaldehyde	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
92-87-5	Benzidine	ND		ug/L	10.3	20.5	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
65-85-0	Benzoic acid	ND		ug/L	25.6	51.3	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
105-60-2	Caprolactam	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH



Sample Information

Client Sample ID: MW013-S

York Sample ID: 14K0085-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0085

170329301

Water

November 3, 2014 10:35 am

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-74-8	Carbazole	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
117-81-7	Bis(2-ethylhexyl)phthalate	1.28	B	ug/L	0.513	0.513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
206-44-0	Fluoranthene	0.0718		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.513	0.513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
67-72-1	Hexachloroethane	ND		ug/L	0.513	0.513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH



Sample Information

Client Sample ID: MW013-S

York Sample ID: 14K0085-04

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 10:35 am

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
98-95-3	Nitrobenzene	ND		ug/L	0.256	0.256	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.513	0.513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
85-01-8	Phenanthrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
129-00-0	Pyrene	0.0821		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 10:22	11/11/2014 16:28	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 10:22	11/11/2014 19:28	KH
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	27.7 %	10-47								
4165-62-2	Surrogate: Phenol-d5	12.0 %	10-37								
4165-60-0	Surrogate: Nitrobenzene-d5	74.9 %	10-109								
321-60-8	Surrogate: 2-Fluorobiphenyl	68.1 %	10-97								
118-79-6	Surrogate: 2,4,6-Tribromophenol	103 %	10-112								
1718-51-0	Surrogate: Terphenyl-d14	93.7 %	10-137								



Sample Information

Client Sample ID: MW013-S

York Sample ID: 14K0085-04

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 10:35 am

Date Received
11/04/2014

Metals, Target Analyte

Sample Prepared by Method: EPA 3010A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.511		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-39-3	Barium	0.141		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-70-2	Calcium	117		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-48-4	Cobalt	0.015		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-50-8	Copper	0.006		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7439-89-6	Iron	0.726		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7439-92-1	Lead	0.006		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7439-95-4	Magnesium	22.0		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7439-96-5	Manganese	1.14		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-02-0	Nickel	0.013		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-09-7	Potassium	14.1		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7782-49-2	Selenium	0.019		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-23-5	Sodium	102		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW
7440-66-6	Zinc	0.024		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 01:55	MW

Metals, Target Analyte, Dissolved

Sample Prepared by Method: EPA 3010A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-39-3	Barium	0.120		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-70-2	Calcium	115		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-48-4	Cobalt	0.013		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-50-8	Copper	0.005		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7439-89-6	Iron	0.021		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW



Sample Information

Client Sample ID: MW013-S

York Sample ID: 14K0085-04

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 10:35 am

Date Received
11/04/2014

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7439-95-4	Magnesium	21.1		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7439-96-5	Manganese	1.00		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-02-0	Nickel	0.011		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-09-7	Potassium	13.7		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7782-49-2	Selenium	0.017		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-23-5	Sodium	102		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW
7440-66-6	Zinc	0.015		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:19	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Sample Information

Client Sample ID: MW013-M

York Sample ID: 14K0085-05

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 12:15 pm

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
71-55-6	1,1,1-Trichloroethane	4.8		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS



Sample Information

Client Sample ID: MW013-M

York Sample ID: 14K0085-05

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 12:15 pm

Date Received

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
79-00-5	1,1,2-Trichloroethane	0.21	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
75-34-3	1,1-Dichloroethane	2.3		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
75-35-4	1,1-Dichloroethylene	4.0		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
71-43-2	Benzene	0.28	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
67-66-3	Chloroform	0.53		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
156-59-2	cis-1,2-Dichloroethylene	24		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS



Sample Information

Client Sample ID: MW013-M

York Sample ID: 14K0085-05

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 12:15 pm

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	0.76		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
127-18-4	Tetrachloroethylene	32		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
79-01-6	Trichloroethylene	240		ug/L	5.0	12	25	EPA 8260C	11/08/2014 16:59	11/10/2014 17:11	SS
75-69-4	Trichlorofluoromethane	1.8		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
75-01-4	Vinyl Chloride	0.78		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/08/2014 16:59	11/09/2014 03:57	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	97.9 %	79-122								
2037-26-5	Surrogate: Toluene-d8	102 %	81-117								



Sample Information

Client Sample ID: MW013-M

York Sample ID: 14K0085-05

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 12:15 pm

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
98-86-2	Acetophenone	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
62-53-3	Aniline	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
1912-24-9	Atrazine	ND		ug/L	0.513	0.513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
100-52-7	Benzaldehyde	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
92-87-5	Benzidine	ND		ug/L	10.3	20.5	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
65-85-0	Benzoic acid	ND		ug/L	25.6	51.3	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
101-55-3	4-Bromophenyl phenyl ether	3.20	J	ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
105-60-2	Caprolactam	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
86-74-8	Carbazole	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH



Sample Information

Client Sample ID: MW013-M

York Sample ID: 14K0085-05

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 12:15 pm

Date Received

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
117-81-7	Bis(2-ethylhexyl)phthalate	3.25	B	ug/L	0.513	0.513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
206-44-0	Fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.513	0.513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
67-72-1	Hexachloroethane	ND		ug/L	0.513	0.513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
78-59-1	Isophorone	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
98-95-3	Nitrobenzene	ND		ug/L	0.256	0.256	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.513	0.513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
85-01-8	Phenanthrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH



Sample Information

Client Sample ID: MW013-M

York Sample ID: 14K0085-05

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 12:15 pm

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
129-00-0	Pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/10/2014 09:22	11/11/2014 16:59	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/10/2014 09:22	11/11/2014 20:00	KH
Surrogate Recoveries		Result		Acceptance Range							
367-12-4	Surrogate: 2-Fluorophenol	29.3 %									
4165-62-2	Surrogate: Phenol-d5	19.9 %									
4165-60-0	Surrogate: Nitrobenzene-d5	92.3 %									
321-60-8	Surrogate: 2-Fluorobiphenyl	83.4 %									
118-79-6	Surrogate: 2,4,6-Tribromophenol	117 %	S-08								
1718-51-0	Surrogate: Terphenyl-d14	104 %									

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7440-39-3	Barium	0.065		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7440-70-2	Calcium	103		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7439-89-6	Iron	0.124		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7439-95-4	Magnesium	28.9		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7439-96-5	Manganese	0.476		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7440-09-7	Potassium	8.30		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7782-49-2	Selenium	0.023		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW



Sample Information

Client Sample ID: MW013-M

York Sample ID: 14K0085-05

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 12:15 pm

Date Received

11/04/2014

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	58.6		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW
7440-66-6	Zinc	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:00	MW

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-39-3	Barium	0.059		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-70-2	Calcium	101		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7439-95-4	Magnesium	27.9		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7439-96-5	Manganese	0.418		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-09-7	Potassium	7.86		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7782-49-2	Selenium	0.020		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-23-5	Sodium	57.1		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW
7440-66-6	Zinc	0.017		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:24	MW



Sample Information

Client Sample ID: MW013-M

York Sample ID: 14K0085-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0085

170329301

Water

November 3, 2014 12:15 pm

11/04/2014

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Sample Information

Client Sample ID: MW013-D

York Sample ID: 14K0085-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0085

170329301

Water

November 3, 2014 1:45 pm

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
71-55-6	1,1,1-Trichloroethane	0.57		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
75-35-4	1,1-Dichloroethylene	0.29	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS



Sample Information

Client Sample ID: MW013-D

York Sample ID: 14K0085-06

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 1:45 pm

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

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
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
67-64-1	Acetone	1.2	Cal-E, CCV-E, B, J	ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
67-66-3	Chloroform	0.22	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
156-59-2	cis-1,2-Dichloroethylene	0.43	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	0.69		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
95-47-6	o-Xylene	0.21	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS



Sample Information

Client Sample ID: MW013-D

York Sample ID: 14K0085-06

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 1:45 pm

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
127-18-4	Tetrachloroethylene	13		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
79-01-6	Trichloroethylene	7.4		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/08/2014 16:59	11/09/2014 04:31	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	115 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	93.9 %	79-122								
2037-26-5	Surrogate: Toluene-d8	103 %	81-117								

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
98-86-2	Acetophenone	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
62-53-3	Aniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
120-12-7	Anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
1912-24-9	Atrazine	ND		ug/L	0.526	0.526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
100-52-7	Benzaldehyde	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
92-87-5	Benzidine	ND		ug/L	10.5	21.1	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
65-85-0	Benzoic acid	ND		ug/L	26.3	52.6	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH



Sample Information

Client Sample ID: MW013-D

York Sample ID: 14K0085-06

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 1:45 pm

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
86-74-8	Carbazole	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
218-01-9	Chrysene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
132-64-9	Dibenzofuran	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
117-81-7	Bis(2-ethylhexyl)phthalate	1.38	B	ug/L	0.526	0.526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
206-44-0	Fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
86-73-7	Fluorene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0211	0.0211	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.526	0.526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
67-72-1	Hexachloroethane	ND		ug/L	0.526	0.526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH



Sample Information

Client Sample ID: MW013-D

York Sample ID: 14K0085-06

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 1:45 pm

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
78-59-1	Isophorone	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
95-48-7	2-Methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
91-20-3	Naphthalene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
98-95-3	Nitrobenzene	ND		ug/L	0.263	0.263	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.526	0.526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.263	0.263	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
85-01-8	Phenanthrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
108-95-2	Phenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
129-00-0	Pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 17:29	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 20:32	KH
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	37.0 %	10-47								
4165-62-2	Surrogate: Phenol-d5	19.1 %	10-37								
4165-60-0	Surrogate: Nitrobenzene-d5	85.3 %	10-109								
321-60-8	Surrogate: 2-Fluorobiphenyl	82.9 %	10-97								
118-79-6	Surrogate: 2,4,6-Tribromophenol	111 %	10-112								
1718-51-0	Surrogate: Terphenyl-d14	97.3 %	10-137								



Sample Information

Client Sample ID: MW013-D

York Sample ID: 14K0085-06

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 1:45 pm

Date Received
11/04/2014

Metals, Target Analyte

Sample Prepared by Method: EPA 3010A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-39-3	Barium	0.073		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-70-2	Calcium	92.8		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7439-89-6	Iron	0.180		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7439-95-4	Magnesium	46.9		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7439-96-5	Manganese	0.101		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-09-7	Potassium	2.93		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7782-49-2	Selenium	0.030		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-23-5	Sodium	53.6		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW
7440-66-6	Zinc	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:05	MW

Metals, Target Analyte, Dissolved

Sample Prepared by Method: EPA 3010A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-39-3	Barium	0.068		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-70-2	Calcium	92.1		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW



Sample Information

Client Sample ID: MW013-D

York Sample ID: 14K0085-06

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 1:45 pm

Date Received
11/04/2014

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7439-95-4	Magnesium	47.6		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7439-96-5	Manganese	0.054		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-09-7	Potassium	2.95		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7782-49-2	Selenium	0.027		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-23-5	Sodium	53.6		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW
7440-66-6	Zinc	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:29	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Sample Information

Client Sample ID: MW014-S

York Sample ID: 14K0085-07

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 3:57 pm

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS



Sample Information

Client Sample ID: MW014-S

York Sample ID: 14K0085-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0085

170329301

Water

November 3, 2014 3:57 pm

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
156-59-2	cis-1,2-Dichloroethylene	0.48	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS



Sample Information

Client Sample ID: MW014-S

York Sample ID: 14K0085-07

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 3:57 pm

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
127-18-4	Tetrachloroethylene	5.1		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
79-01-6	Trichloroethylene	4.3		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:04	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	110 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	96.7 %	79-122								
2037-26-5	Surrogate: Toluene-d8	100 %	81-117								



Sample Information

Client Sample ID: MW014-S

York Sample ID: 14K0085-07

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 3:57 pm

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
98-86-2	Acetophenone	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
62-53-3	Aniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
120-12-7	Anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
1912-24-9	Atrazine	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
100-52-7	Benzaldehyde	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
92-87-5	Benzidine	ND		ug/L	10.8	21.6	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
65-85-0	Benzoic acid	ND		ug/L	27.0	54.1	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
105-60-2	Caprolactam	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
86-74-8	Carbazole	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
132-64-9	Dibenzofuran	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH



Sample Information

Client Sample ID: MW014-S

York Sample ID: 14K0085-07

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 3:57 pm

Date Received

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
117-81-7	Bis(2-ethylhexyl)phthalate	2.12	B	ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
206-44-0	Fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0216	0.0216	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
67-72-1	Hexachloroethane	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
78-59-1	Isophorone	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
95-48-7	2-Methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
98-95-3	Nitrobenzene	ND		ug/L	0.270	0.270	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.541	0.541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.270	0.270	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
85-01-8	Phenanthrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH



Sample Information

Client Sample ID: MW014-S

York Sample ID: 14K0085-07

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 3:57 pm

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
129-00-0	Pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:00	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:05	KH
Surrogate Recoveries		Result		Acceptance Range							
367-12-4	Surrogate: 2-Fluorophenol	22.7 %				10-47					
4165-62-2	Surrogate: Phenol-d5	9.54 %	S-08			10-37					
4165-60-0	Surrogate: Nitrobenzene-d5	61.9 %				10-109					
321-60-8	Surrogate: 2-Fluorobiphenyl	54.6 %				10-97					
118-79-6	Surrogate: 2,4,6-Tribromophenol	82.2 %				10-112					
1718-51-0	Surrogate: Terphenyl-d14	95.7 %				10-137					

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.836		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7440-39-3	Barium	0.100		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7440-70-2	Calcium	69.7		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7439-89-6	Iron	1.02		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7439-92-1	Lead	0.007		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7439-95-4	Magnesium	11.6		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7439-96-5	Manganese	0.524		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7440-09-7	Potassium	6.46		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW



Sample Information

Client Sample ID: MW014-S

York Sample ID: 14K0085-07

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 3:57 pm

Date Received

11/04/2014

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	39.0		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW
7440-66-6	Zinc	0.016		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:11	MW

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-39-3	Barium	0.083		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-70-2	Calcium	69.7		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7439-95-4	Magnesium	10.9		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7439-96-5	Manganese	0.412		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-09-7	Potassium	6.00		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-23-5	Sodium	38.9		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW
7440-66-6	Zinc	0.011		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:34	MW



Sample Information

Client Sample ID: MW014-S

York Sample ID: 14K0085-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0085

170329301

Water

November 3, 2014 3:57 pm

11/04/2014

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Sample Information

Client Sample ID: MW015-S

York Sample ID: 14K0085-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0085

170329301

Water

November 3, 2014 3:50 pm

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
71-55-6	1,1,1-Trichloroethane	0.27	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS



Sample Information

Client Sample ID: MW015-S

York Sample ID: 14K0085-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0085

170329301

Water

November 3, 2014 3:50 pm

11/04/2014

Volatile Organics, 8260 - Comprehensive

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
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
67-64-1	Acetone	1.7	Cal-E, CCV-E, B, J	ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS



Sample Information

Client Sample ID: MW015-S

York Sample ID: 14K0085-08

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 3:50 pm

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
127-18-4	Tetrachloroethylene	1.6		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
79-01-6	Trichloroethylene	0.43	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/08/2014 16:59	11/09/2014 05:37	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %			69-130						
460-00-4	Surrogate: p-Bromofluorobenzene	98.2 %			79-122						
2037-26-5	Surrogate: Toluene-d8	99.9 %			81-117						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
98-86-2	Acetophenone	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
62-53-3	Aniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
120-12-7	Anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
1912-24-9	Atrazine	ND		ug/L	0.526	0.526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
100-52-7	Benzaldehyde	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
92-87-5	Benzidine	ND		ug/L	10.5	21.1	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
65-85-0	Benzoic acid	ND		ug/L	26.3	52.6	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH



Sample Information

Client Sample ID: MW015-S

York Sample ID: 14K0085-08

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 3:50 pm

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
86-74-8	Carbazole	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
218-01-9	Chrysene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
132-64-9	Dibenzofuran	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
117-81-7	Bis(2-ethylhexyl)phthalate	4.74	B	ug/L	0.526	0.526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
206-44-0	Fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
86-73-7	Fluorene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0211	0.0211	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.526	0.526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
67-72-1	Hexachloroethane	ND		ug/L	0.526	0.526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH



Sample Information

Client Sample ID: MW015-S

York Sample ID: 14K0085-08

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 3:50 pm

Date Received

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
78-59-1	Isophorone	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
95-48-7	2-Methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
91-20-3	Naphthalene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
98-95-3	Nitrobenzene	ND		ug/L	0.263	0.263	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.526	0.526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.263	0.263	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
85-01-8	Phenanthrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
108-95-2	Phenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
129-00-0	Pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 18:30	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 21:36	KH
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	17.7 %	10-47								
4165-62-2	Surrogate: Phenol-d5	12.5 %	10-37								
4165-60-0	Surrogate: Nitrobenzene-d5	68.4 %	10-109								
321-60-8	Surrogate: 2-Fluorobiphenyl	62.5 %	10-97								
118-79-6	Surrogate: 2,4,6-Tribromophenol	92.5 %	10-112								
1718-51-0	Surrogate: Terphenyl-d14	87.5 %	10-137								



Sample Information

Client Sample ID: MW015-S

York Sample ID: 14K0085-08

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 3:50 pm

Date Received
11/04/2014

Metals, Target Analyte

Sample Prepared by Method: EPA 3010A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.089		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-39-3	Barium	0.120		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-70-2	Calcium	127		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7439-89-6	Iron	0.343		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7439-95-4	Magnesium	19.3		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7439-96-5	Manganese	1.10		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-09-7	Potassium	8.36		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7782-49-2	Selenium	0.028		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-23-5	Sodium	129		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW
7440-66-6	Zinc	0.014		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:15	MW

Metals, Target Analyte, Dissolved

Sample Prepared by Method: EPA 3010A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-39-3	Barium	0.115		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-70-2	Calcium	128		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW



Sample Information

Client Sample ID: MW015-S

York Sample ID: 14K0085-08

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 3:50 pm

Date Received
11/04/2014

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7439-95-4	Magnesium	19.2		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7439-96-5	Manganese	1.06		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-09-7	Potassium	8.54		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7782-49-2	Selenium	0.030		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-23-5	Sodium	127		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW
7440-66-6	Zinc	0.023		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:39	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Sample Information

Client Sample ID: TB01

York Sample ID: 14K0085-09

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 12:00 am

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS



Sample Information

Client Sample ID: TB01

York Sample ID: 14K0085-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0085

170329301

Water

November 3, 2014 12:00 am

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
67-64-1	Acetone	1.5	Cal-E, CCV-E, B, J	ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS



Sample Information

Client Sample ID: TB01

York Sample ID: 14K0085-09

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 12:00 am

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

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
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:11	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.1 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	99.3 %	79-122								
2037-26-5	Surrogate: Toluene-d8	104 %	81-117								



Sample Information

Client Sample ID: DUP01

York Sample ID: 14K0085-10

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 3:00 pm

Date Received

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
71-55-6	1,1,1-Trichloroethane	0.57		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
75-35-4	1,1-Dichloroethylene	0.33	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
67-64-1	Acetone	1.3	Cal-E, CCV-E, B, J	ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
67-66-3	Chloroform	0.22	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS



Sample Information

Client Sample ID: DUP01

York Sample ID: 14K0085-10

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 3:00 pm

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	0.48	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	0.66		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
95-47-6	o-Xylene	0.26	J	ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
127-18-4	Tetrachloroethylene	13		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
79-01-6	Trichloroethylene	7.4		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
1330-20-7	* Xylenes, Total	0.67	J	ug/L	0.60	1.5	1	EPA 8260C	11/08/2014 16:59	11/09/2014 06:44	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	109 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	95.0 %	79-122								
2037-26-5	Surrogate: Toluene-d8	102 %	81-117								



Sample Information

Client Sample ID: DUP01

York Sample ID: 14K0085-10

York Project (SDG) No.
14K0085

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 3:00 pm

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
98-86-2	Acetophenone	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
62-53-3	Aniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
120-12-7	Anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
1912-24-9	Atrazine	ND		ug/L	0.526	0.526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
100-52-7	Benzaldehyde	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
92-87-5	Benzidine	ND		ug/L	10.5	21.1	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
65-85-0	Benzoic acid	ND		ug/L	26.3	52.6	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
101-55-3	4-Bromophenyl phenyl ether	2.77	J	ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
105-60-2	Caprolactam	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
86-74-8	Carbazole	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
218-01-9	Chrysene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
132-64-9	Dibenzofuran	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH



Sample Information

Client Sample ID: DUP01

York Sample ID: 14K0085-10

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 3:00 pm

Date Received

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
117-81-7	Bis(2-ethylhexyl)phthalate	3.28	B	ug/L	0.526	0.526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
206-44-0	Fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
86-73-7	Fluorene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0211	0.0211	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.526	0.526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
67-72-1	Hexachloroethane	ND		ug/L	0.526	0.526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
78-59-1	Isophorone	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
95-48-7	2-Methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
91-20-3	Naphthalene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
98-95-3	Nitrobenzene	ND		ug/L	0.263	0.263	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.526	0.526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.263	0.263	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
85-01-8	Phenanthrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH



Sample Information

Client Sample ID: DUP01

York Sample ID: 14K0085-10

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 3:00 pm

Date Received

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
129-00-0	Pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/10/2014 13:22	11/11/2014 19:01	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/10/2014 13:22	11/11/2014 22:08	KH
Surrogate Recoveries		Result		Acceptance Range							
367-12-4	Surrogate: 2-Fluorophenol	19.0 %		10-47							
4165-62-2	Surrogate: Phenol-d5	13.1 %		10-37							
4165-60-0	Surrogate: Nitrobenzene-d5	65.5 %		10-109							
321-60-8	Surrogate: 2-Fluorobiphenyl	60.4 %		10-97							
118-79-6	Surrogate: 2,4,6-Tribromophenol	93.2 %		10-112							
1718-51-0	Surrogate: Terphenyl-d14	98.4 %		10-137							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7440-39-3	Barium	0.072		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7440-70-2	Calcium	92.4		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7439-89-6	Iron	0.180		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7439-95-4	Magnesium	47.5		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7439-96-5	Manganese	0.106		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7440-09-7	Potassium	2.98		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7782-49-2	Selenium	0.029		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW



Sample Information

Client Sample ID: DUP01

York Sample ID: 14K0085-10

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 3:00 pm

Date Received

11/04/2014

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	53.8		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW
7440-66-6	Zinc	0.011		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:33	MW

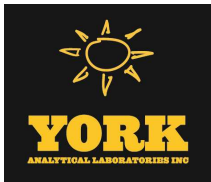
Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-39-3	Barium	0.069		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-70-2	Calcium	92.8		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7439-95-4	Magnesium	48.2		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7439-96-5	Manganese	0.054		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-09-7	Potassium	2.98		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7782-49-2	Selenium	0.032		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-23-5	Sodium	53.7		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW
7440-66-6	Zinc	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:44	MW



Sample Information

Client Sample ID: DUP01

York Sample ID: 14K0085-10

York Project (SDG) No.

14K0085

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 3, 2014 3:00 pm

Date Received

11/04/2014

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD



Analytical Batch Summary

Batch ID: BK40344

Preparation Method: EPA 5030B

Prepared By: BGS

YORK Sample ID	Client Sample ID	Preparation Date
14K0085-01	MW012-S	11/08/14
14K0085-02	MW012-M	11/08/14
14K0085-03	MW012-D	11/08/14
14K0085-04	MW013-S	11/08/14
14K0085-05	MW013-M	11/08/14
14K0085-06	MW013-D	11/08/14
14K0085-07	MW014-S	11/08/14
14K0085-08	MW015-S	11/08/14
14K0085-09	TB01	11/08/14
14K0085-10	DUP01	11/08/14
BK40344-BLK1	Blank	11/08/14
BK40344-BS1	LCS	11/08/14
BK40344-BSD1	LCS Dup	11/08/14
BK40344-MS1	Matrix Spike	11/08/14
BK40344-MSD1	Matrix Spike Dup	11/08/14

Batch ID: BK40384

Preparation Method: EPA 7473 water

Prepared By: ALD

YORK Sample ID	Client Sample ID	Preparation Date
14K0085-01	MW012-S	11/10/14
14K0085-02	MW012-M	11/10/14
14K0085-03	MW012-D	11/10/14
14K0085-04	MW013-S	11/10/14
14K0085-05	MW013-M	11/10/14
14K0085-06	MW013-D	11/10/14
14K0085-07	MW014-S	11/10/14
14K0085-08	MW015-S	11/10/14
14K0085-10	DUP01	11/10/14
BK40384-BLK1	Blank	11/10/14
BK40384-DUP1	Duplicate	11/10/14
BK40384-MS1	Matrix Spike	11/10/14
BK40384-SRM1	Reference	11/10/14

Batch ID: BK40395

Preparation Method: EPA 5030B

Prepared By: BGS

YORK Sample ID	Client Sample ID	Preparation Date
14K0085-02RE1	MW012-M	11/10/14
14K0085-04RE1	MW013-S	11/10/14
14K0085-04RE2	MW013-S	11/10/14
14K0085-05RE1	MW013-M	11/10/14
BK40395-BLK1	Blank	11/10/14
BK40395-BS1	LCS	11/10/14
BK40395-BSD1	LCS Dup	11/10/14
BK40395-MS1	Matrix Spike	11/10/14
BK40395-MSD1	Matrix Spike Dup	11/10/14



Batch ID: BK40396

Preparation Method: EPA 3510C

Prepared By: DB

YORK Sample ID	Client Sample ID	Preparation Date
14K0085-01	MW012-S	11/10/14
14K0085-02	MW012-M	11/10/14
14K0085-03	MW012-D	11/10/14
14K0085-04	MW013-S	11/10/14
14K0085-05	MW013-M	11/10/14
14K0085-06	MW013-D	11/10/14
14K0085-07	MW014-S	11/10/14
14K0085-08	MW015-S	11/10/14
14K0085-10	DUP01	11/10/14
BK40396-BLK1	Blank	11/10/14
BK40396-BS1	LCS	11/10/14
BK40396-BS2	LCS	11/10/14

Batch ID: BK40477

Preparation Method: EPA 3010A

Prepared By: MW

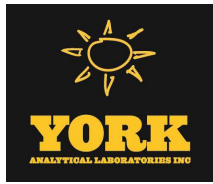
YORK Sample ID	Client Sample ID	Preparation Date
14K0085-01	MW012-S	11/11/14
14K0085-02	MW012-M	11/11/14
14K0085-03	MW012-D	11/11/14
14K0085-04	MW013-S	11/11/14
14K0085-05	MW013-M	11/11/14
14K0085-06	MW013-D	11/11/14
14K0085-07	MW014-S	11/11/14
14K0085-08	MW015-S	11/11/14
14K0085-10	DUP01	11/11/14
BK40477-BLK1	Blank	11/11/14
BK40477-DUP1	Duplicate	11/11/14
BK40477-MS1	Matrix Spike	11/11/14
BK40477-SRM1	Reference	11/11/14
BK40477-SRM2	Reference	11/11/14

Batch ID: BK40478

Preparation Method: EPA 3010A

Prepared By: MW

YORK Sample ID	Client Sample ID	Preparation Date
14K0085-01	MW012-S	11/11/14
14K0085-02	MW012-M	11/11/14
14K0085-03	MW012-D	11/11/14
14K0085-04	MW013-S	11/11/14
14K0085-05	MW013-M	11/11/14
14K0085-06	MW013-D	11/11/14
14K0085-07	MW014-S	11/11/14
14K0085-08	MW015-S	11/11/14
14K0085-10	DUP01	11/11/14
BK40478-BLK1	Blank	11/11/14
BK40478-DUP1	Duplicate	11/11/14
BK40478-MS1	Matrix Spike	11/11/14
BK40478-SRM1	Reference	11/11/14



BK40478-SRM2

Reference

11/11/14



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 BK40344 - EPA 5030B

Blank (BK40344-BLK1)

Prepared: 11/08/2014 Analyzed: 11/09/2014

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	"
1,1,2,2-Tetrachloroethane	ND	0.50	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"
1,1,2-Trichloroethane	ND	0.50	"
1,1-Dichloroethane	ND	0.50	"
1,1-Dichloroethylene	ND	0.50	"
1,2,4-Trichlorobenzene	ND	0.50	"
1,2,4-Trimethylbenzene	ND	0.50	"
1,2-Dibromo-3-chloropropane	ND	0.50	"
1,2-Dibromoethane	ND	0.50	"
1,2-Dichlorobenzene	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
1,2-Dichloropropane	ND	0.50	"
1,3,5-Trimethylbenzene	ND	0.50	"
1,3-Dichlorobenzene	ND	0.50	"
1,4-Dichlorobenzene	ND	0.50	"
1,4-Dioxane	ND	80	"
2-Butanone	ND	0.50	"
2-Hexanone	ND	0.50	"
4-Methyl-2-pentanone	ND	0.50	"
Acetone	1.2	2.0	"
Acrolein	ND	0.50	"
Acrylonitrile	ND	0.50	"
Benzene	ND	0.50	"
Bromodichloromethane	ND	0.50	"
Bromoform	ND	0.50	"
Bromomethane	ND	0.50	"
Carbon disulfide	ND	0.50	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	0.50	"
Chloroethane	ND	0.50	"
Chloroform	ND	0.50	"
Chloromethane	ND	0.50	"
cis-1,2-Dichloroethylene	ND	0.50	"
cis-1,3-Dichloropropylene	ND	0.50	"
Dibromochloromethane	ND	0.50	"
Dibromomethane	ND	0.50	"
Dichlorodifluoromethane	ND	0.50	"
Ethyl Benzene	ND	0.50	"
Hexachlorobutadiene	ND	0.50	"
Isopropylbenzene	ND	0.50	"
Methyl acetate	ND	0.50	"
Methyl tert-butyl ether (MTBE)	ND	0.50	"
Methylene chloride	ND	2.0	"
n-Butylbenzene	ND	0.50	"
n-Propylbenzene	ND	0.50	"
o-Xylene	ND	0.50	"
p- & m- Xylenes	ND	1.0	"
p-Isopropyltoluene	ND	0.50	"
sec-Butylbenzene	ND	0.50	"



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 BK40344 - EPA 5030B

Blank (BK40344-BLK1)

Prepared: 11/08/2014 Analyzed: 11/09/2014

Styrene	ND	0.50	ug/L
tert-Butyl alcohol (TBA)	ND	1.0	"
tert-Butylbenzene	ND	0.50	"
Tetrachloroethylene	ND	0.50	"
Toluene	ND	0.50	"
trans-1,2-Dichloroethylene	ND	0.50	"
trans-1,3-Dichloropropylene	ND	0.50	"
Trichloroethylene	ND	0.50	"
Trichlorofluoromethane	ND	0.50	"
Vinyl Chloride	ND	0.50	"
Xylenes, Total	ND	1.5	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>11.2</i>		<i>"</i>	<i>10.0</i>		<i>112</i>	<i>69-130</i>
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.15</i>		<i>"</i>	<i>10.0</i>		<i>91.5</i>	<i>79-122</i>
<i>Surrogate: Toluene-d8</i>	<i>10.7</i>		<i>"</i>	<i>10.0</i>		<i>107</i>	<i>81-117</i>

LCS (BK40344-BS1)

Prepared & Analyzed: 11/08/2014

1,1,1,2-Tetrachloroethane	11		ug/L	10.0		110	82-126
1,1,1-Trichloroethane	10		"	10.0		105	78-136
1,1,2,2-Tetrachloroethane	11		"	10.0		108	76-129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.1		"	10.0		91.0	54-165
1,1,2-Trichloroethane	11		"	10.0		114	82-123
1,1-Dichloroethane	10		"	10.0		103	82-129
1,1-Dichloroethylene	9.9		"	10.0		98.6	68-138
1,2,4-Trichlorobenzene	10		"	10.0		103	76-137
1,2,4-Trimethylbenzene	9.8		"	10.0		98.1	82-132
1,2-Dibromo-3-chloropropane	11		"	10.0		106	45-147
1,2-Dibromoethane	11		"	10.0		112	83-124
1,2-Dichlorobenzene	10		"	10.0		104	79-123
1,2-Dichloroethane	10		"	10.0		101	73-132
1,2-Dichloropropane	11		"	10.0		114	78-126
1,3,5-Trimethylbenzene	10		"	10.0		100	80-131
1,3-Dichlorobenzene	10		"	10.0		104	86-122
1,4-Dichlorobenzene	11		"	10.0		106	85-124
1,4-Dioxane	230		"	200		117	10-349
2-Butanone	8.9		"	10.0		88.8	49-152
2-Hexanone	11		"	10.0		114	51-146
4-Methyl-2-pentanone	11		"	10.0		106	57-145
Acetone	7.8		"	10.0		77.9	14-150
Acrolein	8.1		"	10.0		80.7	10-153
Acrylonitrile	10		"	10.0		104	51-150
Benzene	10		"	10.0		100	85-126
Bromodichloromethane	11		"	10.0		111	79-128
Bromoform	11		"	10.0		112	78-133
Bromomethane	9.0		"	10.0		89.7	43-168
Carbon disulfide	9.2		"	10.0		92.2	68-146
Carbon tetrachloride	9.8		"	10.0		97.9	77-141
Chlorobenzene	10		"	10.0		104	88-120
Chloroethane	9.3		"	10.0		92.9	65-136
Chloroform	10		"	10.0		101	82-128
Chloromethane	8.7		"	10.0		86.9	43-155
cis-1,2-Dichloroethylene	9.9		"	10.0		99.0	83-129
cis-1,3-Dichloropropylene	11		"	10.0		111	80-131



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 BK40344 - EPA 5030B

LCS (BK40344-BS1)

Prepared & Analyzed: 11/08/2014

Dibromochloromethane	12		ug/L	10.0		115	80-130				
Dibromomethane	11		"	10.0		112	72-134				
Dichlorodifluoromethane	7.5		"	10.0		74.9	44-144				
Ethyl Benzene	11		"	10.0		108	80-131				
Hexachlorobutadiene	9.9		"	10.0		99.4	67-146				
Isopropylbenzene	9.8		"	10.0		98.1	76-140				
Methyl acetate	7.6		"	10.0		75.5	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		106	76-135				
Methylene chloride	10		"	10.0		99.6	55-137				
n-Butylbenzene	10		"	10.0		101	79-132				
n-Propylbenzene	11		"	10.0		105	78-133				
o-Xylene	11		"	10.0		106	78-130				
p- & m- Xylenes	22		"	20.0		109	77-133				
p-Isopropyltoluene	11		"	10.0		105	81-136				
sec-Butylbenzene	10		"	10.0		99.7	79-137				
Styrene	11		"	10.0		110	67-132				
tert-Butyl alcohol (TBA)	10		"	10.0		100	25-162				
tert-Butylbenzene	9.9		"	10.0		99.1	77-138				
Tetrachloroethylene	11		"	10.0		108	82-131				
Toluene	11		"	10.0		106	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		104	80-132				
trans-1,3-Dichloropropylene	10		"	10.0		102	78-131				
Trichloroethylene	11		"	10.0		108	82-128				
Trichlorofluoromethane	9.5		"	10.0		95.3	67-139				
Vinyl Chloride	9.0		"	10.0		89.5	58-145				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.0</i>		<i>"</i>	<i>10.0</i>		<i>100</i>	<i>69-130</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.3</i>		<i>"</i>	<i>10.0</i>		<i>103</i>	<i>79-122</i>				
<i>Surrogate: Toluene-d8</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>81-117</i>				



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
Batch BK40344 - EPA 5030B											
LCS Dup (BK40344-BSD1)						Prepared & Analyzed: 11/08/2014					
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		104	82-126		6.00	30	
1,1,1-Trichloroethane	9.6		"	10.0		96.1	78-136		8.76	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		104	76-129		4.15	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.7		"	10.0		86.7	54-165		4.84	30	
1,1,2-Trichloroethane	12		"	10.0		117	82-123		2.43	30	
1,1-Dichloroethane	10		"	10.0		103	82-129		0.291	30	
1,1-Dichloroethylene	9.4		"	10.0		94.3	68-138		4.46	30	
1,2,4-Trichlorobenzene	10		"	10.0		103	76-137		0.291	30	
1,2,4-Trimethylbenzene	9.6		"	10.0		95.7	82-132		2.48	30	
1,2-Dibromo-3-chloropropane	9.5		"	10.0		94.7	45-147		11.5	30	
1,2-Dibromoethane	11		"	10.0		109	83-124		2.63	30	
1,2-Dichlorobenzene	10		"	10.0		102	79-123		1.75	30	
1,2-Dichloroethane	9.4		"	10.0		93.6	73-132		7.51	30	
1,2-Dichloropropane	11		"	10.0		113	78-126		1.32	30	
1,3,5-Trimethylbenzene	9.8		"	10.0		98.5	80-131		1.61	30	
1,3-Dichlorobenzene	9.7		"	10.0		96.6	86-122		7.19	30	
1,4-Dichlorobenzene	10		"	10.0		102	85-124		4.42	30	
1,4-Dioxane	220		"	200		110	10-349		6.37	30	
2-Butanone	9.5		"	10.0		95.1	49-152		6.85	30	
2-Hexanone	9.9		"	10.0		98.9	51-146		14.3	30	
4-Methyl-2-pentanone	10		"	10.0		99.5	57-145		6.70	30	
Acetone	7.0		"	10.0		70.2	14-150		10.4	30	
Acrolein	7.7		"	10.0		77.2	10-153		4.43	30	
Acrylonitrile	9.4		"	10.0		93.5	51-150		10.9	30	
Benzene	9.3		"	10.0		92.8	85-126		7.87	30	
Bromodichloromethane	11		"	10.0		108	79-128		2.64	30	
Bromoform	9.8		"	10.0		98.1	78-133		13.2	30	
Bromomethane	8.7		"	10.0		87.1	43-168		2.94	30	
Carbon disulfide	9.4		"	10.0		94.3	68-146		2.25	30	
Carbon tetrachloride	9.5		"	10.0		95.2	77-141		2.80	30	
Chlorobenzene	10		"	10.0		99.7	88-120		4.13	30	
Chloroethane	8.4		"	10.0		84.4	65-136		9.59	30	
Chloroform	9.8		"	10.0		98.5	82-128		2.11	30	
Chloromethane	8.4		"	10.0		83.9	43-155		3.51	30	
cis-1,2-Dichloroethylene	9.8		"	10.0		97.5	83-129		1.53	30	
cis-1,3-Dichloropropylene	11		"	10.0		108	80-131		3.10	30	
Dibromochloromethane	11		"	10.0		111	80-130		3.89	30	
Dibromomethane	11		"	10.0		113	72-134		0.624	30	
Dichlorodifluoromethane	7.5		"	10.0		75.1	44-144		0.267	30	
Ethyl Benzene	10		"	10.0		104	80-131		3.88	30	
Hexachlorobutadiene	9.5		"	10.0		94.7	67-146		4.84	30	
Isopropylbenzene	9.4		"	10.0		93.6	76-140		4.69	30	
Methyl acetate	7.2		"	10.0		72.2	51-139		4.47	30	
Methyl tert-butyl ether (MTBE)	9.9		"	10.0		99.1	76-135		6.54	30	
Methylene chloride	9.9		"	10.0		99.3	55-137		0.302	30	
n-Butylbenzene	9.8		"	10.0		98.2	79-132		2.51	30	
n-Propylbenzene	9.4		"	10.0		94.0	78-133		11.2	30	
o-Xylene	11		"	10.0		107	78-130		1.60	30	
p- & m- Xylenes	22		"	20.0		109	77-133		0.459	30	
p-Isopropyltoluene	9.6		"	10.0		95.7	81-136		9.36	30	
sec-Butylbenzene	9.6		"	10.0		96.3	79-137		3.47	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 BK40344 - EPA 5030B

LCS Dup (BK40344-BSD1)

Prepared & Analyzed: 11/08/2014

Styrene	11		ug/L	10.0		107	67-132		2.77	30	
tert-Butyl alcohol (TBA)	11		"	10.0		106	25-162		5.34	30	
tert-Butylbenzene	9.8		"	10.0		97.8	77-138		1.32	30	
Tetrachloroethylene	9.7		"	10.0		96.8	82-131		10.9	30	
Toluene	11		"	10.0		107	80-127		1.32	30	
trans-1,2-Dichloroethylene	9.4		"	10.0		94.4	80-132		9.20	30	
trans-1,3-Dichloropropylene	9.8		"	10.0		97.9	78-131		4.30	30	
Trichloroethylene	11		"	10.0		110	82-128		1.56	30	
Trichlorofluoromethane	9.2		"	10.0		91.8	67-139		3.74	30	
Vinyl Chloride	8.7		"	10.0		86.6	58-145		3.29	30	
Surrogate: 1,2-Dichloroethane-d4	10.0		"	10.0		100	69-130				
Surrogate: p-Bromofluorobenzene	9.60		"	10.0		96.0	79-122				
Surrogate: Toluene-d8	9.77		"	10.0		97.7	81-117				

Matrix Spike (BK40344-MS1)

*Source sample: 14K0085-02 (MW012-M)

Prepared: 11/08/2014 Analyzed: 11/09/2014

1,1,1,2-Tetrachloroethane	11		ug/L	10.0	ND	113	45-161				
1,1,1-Trichloroethane	15		"	10.0	6.1	88.7	70-146				
1,1,2,2-Tetrachloroethane	11		"	10.0	ND	111	74-121				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.8		"	10.0	ND	87.6	21-217				
1,1,2-Trichloroethane	12		"	10.0	ND	119	59-146				
1,1-Dichloroethane	10		"	10.0	0.77	95.7	54-146				
1,1-Dichloroethylene	11		"	10.0	1.7	92.1	44-165				
1,2,4-Trichlorobenzene	11		"	10.0	ND	107	41-161				
1,2,4-Trimethylbenzene	10		"	10.0	ND	104	72-129				
1,2-Dibromo-3-chloropropane	10		"	10.0	ND	101	31-151				
1,2-Dibromoethane	11		"	10.0	ND	113	75-125				
1,2-Dichlorobenzene	11		"	10.0	ND	108	63-122				
1,2-Dichloroethane	10		"	10.0	ND	100	68-131				
1,2-Dichloropropane	10		"	10.0	ND	103	77-121				
1,3,5-Trimethylbenzene	11		"	10.0	ND	108	69-126				
1,3-Dichlorobenzene	10		"	10.0	ND	103	74-119				
1,4-Dichlorobenzene	11		"	10.0	ND	114	70-124				
1,4-Dioxane	220		"	200	ND	108	10-310				
2-Butanone	9.2		"	10.0	ND	92.4	10-193				
2-Hexanone	11		"	10.0	ND	109	53-133				
4-Methyl-2-pentanone	11		"	10.0	ND	111	38-150				
Acetone	7.9		"	10.0	2.4	55.4	13-149				
Acrolein	8.2		"	10.0	ND	81.7	10-195				
Acrylonitrile	9.6		"	10.0	ND	96.1	37-165				
Benzene	9.6		"	10.0	ND	96.4	38-155				
Bromodichloromethane	10		"	10.0	ND	103	70-129				
Bromoform	12		"	10.0	ND	118	66-136				
Bromomethane	8.8		"	10.0	ND	87.9	30-158				
Carbon disulfide	9.4		"	10.0	ND	93.5	10-138				
Carbon tetrachloride	10		"	10.0	ND	100	71-146				
Chlorobenzene	10		"	10.0	ND	104	81-117				
Chloroethane	9.2		"	10.0	ND	92.0	51-145				
Chloroform	10		"	10.0	0.33	97.2	80-124				
Chloromethane	8.9		"	10.0	ND	89.0	16-163				
cis-1,2-Dichloroethylene	15		"	10.0	6.8	80.5	76-125				
cis-1,3-Dichloropropylene	9.7		"	10.0	ND	96.9	58-131				
Dibromochloromethane	12		"	10.0	ND	116	71-129				



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 BK40344 - EPA 5030B

Matrix Spike (BK40344-MS1)	*Source sample: 14K0085-02 (MW012-M)						Prepared: 11/08/2014 Analyzed: 11/09/2014				
Dibromomethane	11		ug/L	10.0	ND	109	76-120				
Dichlorodifluoromethane	7.9		"	10.0	ND	79.4	30-147				
Ethyl Benzene	11		"	10.0	ND	108	72-128				
Hexachlorobutadiene	10		"	10.0	ND	102	34-166				
Isopropylbenzene	11		"	10.0	ND	106	66-139				
Methyl acetate	7.8		"	10.0	ND	77.9	10-200				
Methyl tert-butyl ether (MTBE)	11		"	10.0	0.39	106	75-128				
Methylene chloride	10		"	10.0	ND	99.6	57-128				
n-Butylbenzene	10		"	10.0	ND	103	61-138				
n-Propylbenzene	11		"	10.0	ND	109	66-134				
o-Xylene	11		"	10.0	ND	107	69-126				
p- & m- Xylenes	21		"	20.0	ND	104	67-130				
p-Isopropyltoluene	10		"	10.0	ND	105	64-137				
sec-Butylbenzene	10		"	10.0	ND	103	53-155				
Styrene	11		"	10.0	ND	108	69-125				
tert-Butyl alcohol (TBA)	11		"	10.0	ND	106	10-130				
tert-Butylbenzene	11		"	10.0	ND	107	65-139				
Tetrachloroethylene	22		"	10.0	11	106	64-139				
Toluene	10		"	10.0	ND	99.9	76-123				
trans-1,2-Dichloroethylene	10		"	10.0	ND	101	79-131				
trans-1,3-Dichloropropylene	9.8		"	10.0	ND	97.6	55-130				
Trichloroethylene	97		"	10.0	78	191	53-145	High Bias			
Trichlorofluoromethane	10		"	10.0	0.33	101	61-142				
Vinyl Chloride	8.6		"	10.0	ND	85.7	31-165				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>69-130</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.76</i>		<i>"</i>	<i>10.0</i>		<i>97.6</i>	<i>79-122</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.96</i>		<i>"</i>	<i>10.0</i>		<i>99.6</i>	<i>81-117</i>				



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
Batch BK40344 - EPA 5030B											
Matrix Spike Dup (BK40344-MSD1)	*Source sample: 14K0085-02 (MW012-M)						Prepared: 11/08/2014 Analyzed: 11/09/2014				
1,1,1,2-Tetrachloroethane	10		ug/L	10.0	ND	100	45-161		12.2	30	
1,1,1-Trichloroethane	16		"	10.0	6.1	96.0	70-146		4.76	30	
1,1,2,2-Tetrachloroethane	11		"	10.0	ND	113	74-121		2.23	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.6		"	10.0	ND	96.0	21-217		9.15	30	
1,1,2-Trichloroethane	11		"	10.0	ND	109	59-146		8.51	30	
1,1-Dichloroethane	11		"	10.0	0.77	97.9	54-146		2.11	30	
1,1-Dichloroethylene	12		"	10.0	1.7	98.5	44-165		5.68	30	
1,2,4-Trichlorobenzene	9.7		"	10.0	ND	96.7	41-161		10.1	30	
1,2,4-Trimethylbenzene	10		"	10.0	ND	99.5	72-129		4.23	30	
1,2-Dibromo-3-chloropropane	9.4		"	10.0	ND	94.3	31-151		6.46	30	
1,2-Dibromoethane	10		"	10.0	ND	100	75-125		12.0	30	
1,2-Dichlorobenzene	10		"	10.0	ND	103	63-122		4.18	30	
1,2-Dichloroethane	10		"	10.0	ND	103	68-131		2.46	30	
1,2-Dichloropropane	10		"	10.0	ND	102	77-121		0.782	30	
1,3,5-Trimethylbenzene	9.2		"	10.0	ND	91.5	69-126		16.8	30	
1,3-Dichlorobenzene	9.8		"	10.0	ND	97.7	74-119		5.57	30	
1,4-Dichlorobenzene	10		"	10.0	ND	102	70-124		11.0	30	
1,4-Dioxane	230		"	200	ND	115	10-310		6.40	30	
2-Butanone	10		"	10.0	ND	103	10-193		10.7	30	
2-Hexanone	9.6		"	10.0	ND	95.9	53-133		13.0	30	
4-Methyl-2-pentanone	8.9		"	10.0	ND	89.1	38-150		21.7	30	
Acetone	8.0		"	10.0	2.4	55.8	13-149		0.503	30	
Acrolein	8.4		"	10.0	ND	83.9	10-195		2.66	30	
Acrylonitrile	10		"	10.0	ND	105	37-165		8.57	30	
Benzene	9.6		"	10.0	ND	95.9	38-155		0.520	30	
Bromodichloromethane	10		"	10.0	ND	102	70-129		0.779	30	
Bromoform	11		"	10.0	ND	110	66-136		7.19	30	
Bromomethane	9.5		"	10.0	ND	94.6	30-158		7.34	30	
Carbon disulfide	9.2		"	10.0	ND	92.3	10-138		1.29	30	
Carbon tetrachloride	10		"	10.0	ND	101	71-146		0.398	30	
Chlorobenzene	9.6		"	10.0	ND	96.4	81-117		7.10	30	
Chloroethane	9.2		"	10.0	ND	91.5	51-145		0.545	30	
Chloroform	11		"	10.0	0.33	103	80-124		5.33	30	
Chloromethane	8.9		"	10.0	ND	88.9	16-163		0.112	30	
cis-1,2-Dichloroethylene	16		"	10.0	6.8	86.8	76-125		4.15	30	
cis-1,3-Dichloropropylene	9.1		"	10.0	ND	90.6	58-131		6.72	30	
Dibromochloromethane	11		"	10.0	ND	105	71-129		9.68	30	
Dibromomethane	11		"	10.0	ND	107	76-120		1.95	30	
Dichlorodifluoromethane	7.7		"	10.0	ND	77.2	30-147		2.81	30	
Ethyl Benzene	9.4		"	10.0	ND	94.1	72-128		13.4	30	
Hexachlorobutadiene	9.8		"	10.0	ND	97.8	34-166		3.81	30	
Isopropylbenzene	9.4		"	10.0	ND	94.2	66-139		11.8	30	
Methyl acetate	8.2		"	10.0	ND	82.0	10-200		5.13	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0	0.39	107	75-128		0.452	30	
Methylene chloride	10		"	10.0	ND	100	57-128		0.900	30	
n-Butylbenzene	9.5		"	10.0	ND	95.4	61-138		7.37	30	
n-Propylbenzene	9.9		"	10.0	ND	98.6	66-134		10.4	30	
o-Xylene	9.8		"	10.0	ND	97.5	69-126		9.66	30	
p- & m- Xylenes	20		"	20.0	ND	99.5	67-130		4.42	30	
p-Isopropyltoluene	9.6		"	10.0	ND	96.4	64-137		8.16	30	
sec-Butylbenzene	9.5		"	10.0	ND	95.0	53-155		8.37	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 BK40344 - EPA 5030B

Matrix Spike Dup (BK40344-MSD1)		*Source sample: 14K0085-02 (MW012-M)					Prepared: 11/08/2014 Analyzed: 11/09/2014				
Styrene	10		ug/L	10.0	ND	99.9	69-125		8.07	30	
tert-Butyl alcohol (TBA)	10		"	10.0	ND	103	10-130		2.11	30	
tert-Butylbenzene	10		"	10.0	ND	105	65-139		1.61	30	
Tetrachloroethylene	22		"	10.0	11	101	64-139		2.34	30	
Toluene	10		"	10.0	ND	100	76-123		0.100	30	
trans-1,2-Dichloroethylene	10		"	10.0	ND	103	79-131		2.45	30	
trans-1,3-Dichloropropylene	8.8		"	10.0	ND	87.5	55-130		10.9	30	
Trichloroethylene	96		"	10.0	78	185	53-145	High Bias	0.652	30	
Trichlorofluoromethane	9.9		"	10.0	0.33	96.1	61-142		5.19	30	
Vinyl Chloride	9.3		"	10.0	ND	93.3	31-165		8.49	30	
Surrogate: 1,2-Dichloroethane-d4	10.7		"	10.0		107	69-130				
Surrogate: p-Bromofluorobenzene	10.3		"	10.0		103	79-122				
Surrogate: Toluene-d8	9.67		"	10.0		96.7	81-117				

Batch BK40395 - EPA 5030B

Blank (BK40395-BLK1)		Prepared & Analyzed: 11/10/2014									
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,4-Trichlorobenzene	0.29	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	80	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	1.5	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								



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 BK40395 - EPA 5030B

Blank (BK40395-BLK1)

Prepared & Analyzed: 11/10/2014

cis-1,3-Dichloropropylene	ND	0.50	ug/L								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	10.4		"	10.0		104	69-130				
Surrogate: p-Bromofluorobenzene	9.96		"	10.0		99.6	79-122				
Surrogate: Toluene-d8	10.3		"	10.0		103	81-117				



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
Batch BK40395 - EPA 5030B											
LCS (BK40395-BS1)						Prepared & Analyzed: 11/10/2014					
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		102	82-126				
1,1,1-Trichloroethane	11		"	10.0		112	78-136				
1,1,2,2-Tetrachloroethane	10		"	10.0		104	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		99.7	54-165				
1,1,2-Trichloroethane	12		"	10.0		115	82-123				
1,1-Dichloroethane	10		"	10.0		104	82-129				
1,1-Dichloroethylene	10		"	10.0		103	68-138				
1,2,4-Trichlorobenzene	11		"	10.0		105	76-137				
1,2,4-Trimethylbenzene	9.7		"	10.0		97.3	82-132				
1,2-Dibromo-3-chloropropane	9.4		"	10.0		93.7	45-147				
1,2-Dibromoethane	11		"	10.0		109	83-124				
1,2-Dichlorobenzene	10		"	10.0		102	79-123				
1,2-Dichloroethane	11		"	10.0		110	73-132				
1,2-Dichloropropane	11		"	10.0		110	78-126				
1,3,5-Trimethylbenzene	9.4		"	10.0		93.6	80-131				
1,3-Dichlorobenzene	10		"	10.0		102	86-122				
1,4-Dichlorobenzene	11		"	10.0		105	85-124				
1,4-Dioxane	210		"	200		104	10-349				
2-Butanone	11		"	10.0		109	49-152				
2-Hexanone	11		"	10.0		106	51-146				
4-Methyl-2-pentanone	11		"	10.0		110	57-145				
Acetone	7.0		"	10.0		70.3	14-150				
Acrolein	11		"	10.0		115	10-153				
Acrylonitrile	9.7		"	10.0		96.9	51-150				
Benzene	11		"	10.0		110	85-126				
Bromodichloromethane	11		"	10.0		105	79-128				
Bromoform	11		"	10.0		111	78-133				
Bromomethane	11		"	10.0		108	43-168				
Carbon disulfide	9.7		"	10.0		97.1	68-146				
Carbon tetrachloride	11		"	10.0		107	77-141				
Chlorobenzene	10		"	10.0		101	88-120				
Chloroethane	9.7		"	10.0		97.1	65-136				
Chloroform	10		"	10.0		101	82-128				
Chloromethane	9.8		"	10.0		97.7	43-155				
cis-1,2-Dichloroethylene	9.8		"	10.0		97.7	83-129				
cis-1,3-Dichloropropylene	11		"	10.0		110	80-131				
Dibromochloromethane	11		"	10.0		110	80-130				
Dibromomethane	11		"	10.0		106	72-134				
Dichlorodifluoromethane	9.5		"	10.0		94.7	44-144				
Ethyl Benzene	10		"	10.0		101	80-131				
Hexachlorobutadiene	10		"	10.0		101	67-146				
Isopropylbenzene	9.2		"	10.0		91.7	76-140				
Methyl acetate	11		"	10.0		110	51-139				
Methyl tert-butyl ether (MTBE)	10		"	10.0		104	76-135				
Methylene chloride	10		"	10.0		99.7	55-137				
n-Butylbenzene	10		"	10.0		103	79-132				
n-Propylbenzene	9.5		"	10.0		95.0	78-133				
o-Xylene	10		"	10.0		101	78-130				
p- & m- Xylenes	20		"	20.0		101	77-133				
p-Isopropyltoluene	10		"	10.0		100	81-136				
sec-Butylbenzene	9.5		"	10.0		95.2	79-137				



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 BK40395 - EPA 5030B

LCS (BK40395-BS1)

Prepared & Analyzed: 11/10/2014

Styrene	10		ug/L	10.0		103	67-132				
tert-Butyl alcohol (TBA)	11		"	10.0		112	25-162				
tert-Butylbenzene	10		"	10.0		101	77-138				
Tetrachloroethylene	9.7		"	10.0		96.6	82-131				
Toluene	10		"	10.0		104	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		100	80-132				
trans-1,3-Dichloropropylene	10		"	10.0		104	78-131				
Trichloroethylene	10		"	10.0		101	82-128				
Trichlorofluoromethane	11		"	10.0		106	67-139				
Vinyl Chloride	9.7		"	10.0		96.8	58-145				

Surrogate: 1,2-Dichloroethane-d4

10.4

"

10.0

104

69-130

Surrogate: p-Bromofluorobenzene

9.43

"

10.0

94.3

79-122

Surrogate: Toluene-d8

9.91

"

10.0

99.1

81-117

LCS Dup (BK40395-BSD1)

Prepared & Analyzed: 11/10/2014

1,1,1,2-Tetrachloroethane	11		ug/L	10.0		106	82-126		3.74	30	
1,1,1-Trichloroethane	10		"	10.0		102	78-136		8.70	30	
1,1,2,2-Tetrachloroethane	11		"	10.0		106	76-129		2.28	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.7		"	10.0		97.1	54-165		2.64	30	
1,1,2-Trichloroethane	11		"	10.0		114	82-123		1.31	30	
1,1-Dichloroethane	10		"	10.0		104	82-129		0.769	30	
1,1-Dichloroethylene	10		"	10.0		99.8	68-138		3.35	30	
1,2,4-Trichlorobenzene	11		"	10.0		109	76-137		3.83	30	
1,2,4-Trimethylbenzene	10		"	10.0		102	82-132		4.32	30	
1,2-Dibromo-3-chloropropane	10		"	10.0		104	45-147		10.0	30	
1,2-Dibromoethane	11		"	10.0		114	83-124		4.67	30	
1,2-Dichlorobenzene	10		"	10.0		105	79-123		2.32	30	
1,2-Dichloroethane	10		"	10.0		104	73-132		5.62	30	
1,2-Dichloropropane	11		"	10.0		109	78-126		0.821	30	
1,3,5-Trimethylbenzene	10		"	10.0		102	80-131		8.98	30	
1,3-Dichlorobenzene	11		"	10.0		110	86-122		7.76	30	
1,4-Dichlorobenzene	10		"	10.0		104	85-124		1.53	30	
1,4-Dioxane	180		"	200		90.5	10-349		13.8	30	
2-Butanone	9.8		"	10.0		98.4	49-152		10.5	30	
2-Hexanone	9.8		"	10.0		97.8	51-146		7.67	30	
4-Methyl-2-pentanone	9.5		"	10.0		94.9	57-145		15.0	30	
Acetone	6.5		"	10.0		65.0	14-150		7.83	30	
Acrolein	11		"	10.0		106	10-153		7.88	30	
Acrylonitrile	10		"	10.0		103	51-150		6.39	30	
Benzene	10		"	10.0		103	85-126		6.46	30	
Bromodichloromethane	11		"	10.0		107	79-128		2.07	30	
Bromoform	12		"	10.0		117	78-133		5.87	30	
Bromomethane	12		"	10.0		115	43-168		6.09	30	
Carbon disulfide	10		"	10.0		101	68-146		4.04	30	
Carbon tetrachloride	10		"	10.0		103	77-141		3.62	30	
Chlorobenzene	9.9		"	10.0		98.6	88-120		2.11	30	
Chloroethane	10		"	10.0		103	65-136		5.99	30	
Chloroform	10		"	10.0		99.7	82-128		0.899	30	
Chloromethane	10		"	10.0		100	43-155		2.43	30	
cis-1,2-Dichloroethylene	10		"	10.0		104	83-129		5.96	30	
cis-1,3-Dichloropropylene	11		"	10.0		111	80-131		1.27	30	
Dibromochloromethane	11		"	10.0		112	80-130		2.34	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 BK40395 - EPA 5030B

LCS Dup (BK40395-BSD1)

Prepared & Analyzed: 11/10/2014

Dibromomethane	11		ug/L	10.0		106	72-134		0.0941	30	
Dichlorodifluoromethane	9.1		"	10.0		90.7	44-144		4.32	30	
Ethyl Benzene	11		"	10.0		106	80-131		5.01	30	
Hexachlorobutadiene	9.8		"	10.0		98.5	67-146		2.31	30	
Isopropylbenzene	9.7		"	10.0		97.0	76-140		5.62	30	
Methyl acetate	11		"	10.0		111	51-139		0.542	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		110	76-135		5.13	30	
Methylene chloride	10		"	10.0		103	55-137		2.87	30	
n-Butylbenzene	10		"	10.0		100	79-132		2.56	30	
n-Propylbenzene	10		"	10.0		104	78-133		9.33	30	
o-Xylene	11		"	10.0		108	78-130		6.33	30	
p- & m- Xylenes	21		"	20.0		105	77-133		3.98	30	
p-Isopropyltoluene	11		"	10.0		107	81-136		6.36	30	
sec-Butylbenzene	11		"	10.0		106	79-137		10.5	30	
Styrene	11		"	10.0		106	67-132		2.78	30	
tert-Butyl alcohol (TBA)	10		"	10.0		104	25-162		7.58	30	
tert-Butylbenzene	10		"	10.0		99.5	77-138		1.10	30	
Tetrachloroethylene	10		"	10.0		102	82-131		5.54	30	
Toluene	11		"	10.0		106	80-127		2.48	30	
trans-1,2-Dichloroethylene	10		"	10.0		105	80-132		4.28	30	
trans-1,3-Dichloropropylene	11		"	10.0		111	78-131		6.51	30	
Trichloroethylene	10		"	10.0		105	82-128		3.59	30	
Trichlorofluoromethane	10		"	10.0		102	67-139		3.56	30	
Vinyl Chloride	9.4		"	10.0		93.8	58-145		3.15	30	
Surrogate: 1,2-Dichloroethane-d4	10.6		"	10.0		106	69-130				
Surrogate: p-Bromofluorobenzene	10.1		"	10.0		101	79-122				
Surrogate: Toluene-d8	10.1		"	10.0		101	81-117				



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
Batch BK40395 - EPA 5030B											
Matrix Spike (BK40395-MS1)	*Source sample: 14K0085-02RE1 (MW012-M)						Prepared & Analyzed: 11/10/2014				
1,1,1,2-Tetrachloroethane	10		ug/L	10.0	ND	104	45-161				
1,1,1-Trichloroethane	11		"	10.0	4.8	62.4	70-146	Low Bias			
1,1,2,2-Tetrachloroethane	9.8		"	10.0	ND	98.4	74-121				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.7		"	10.0	ND	96.8	21-217				
1,1,2-Trichloroethane	11		"	10.0	ND	105	59-146				
1,1-Dichloroethane	10		"	10.0	1.1	90.6	54-146				
1,1-Dichloroethylene	11		"	10.0	1.6	92.8	44-165				
Bromochloromethane	11		"	10.0	ND	112	75-121				
1,2,4-Trichlorobenzene	10		"	10.0	ND	99.5	41-161				
1,2,4-Trimethylbenzene	10		"	10.0	ND	100	72-129				
1,2-Dibromo-3-chloropropane	8.9		"	10.0	ND	88.6	31-151				
1,2-Dibromoethane	10		"	10.0	ND	100	75-125				
1,2-Dichlorobenzene	9.5		"	10.0	ND	95.1	63-122				
1,2-Dichloroethane	9.5		"	10.0	ND	94.6	68-131				
1,2-Dichloropropane	10		"	10.0	ND	105	77-121				
1,3,5-Trimethylbenzene	9.8		"	10.0	ND	98.3	69-126				
1,3-Dichlorobenzene	9.8		"	10.0	ND	98.2	74-119				
1,4-Dichlorobenzene	9.7		"	10.0	ND	97.4	70-124				
1,4-Dioxane	190		"	200	ND	94.0	10-310				
Cyclohexane	10		"	10.0	ND	99.7	70-130				
2-Butanone	10		"	10.0	ND	99.8	10-193				
2-Hexanone	9.1		"	10.0	ND	91.0	53-133				
4-Methyl-2-pentanone	8.6		"	10.0	ND	85.8	38-150				
Acetone	7.3		"	10.0	19	NR	13-149	Low Bias			
Acrolein	9.8		"	10.0	ND	97.5	10-195				
Acrylonitrile	10		"	10.0	ND	101	37-165				
Benzene	9.5		"	10.0	ND	94.8	38-155				
Bromodichloromethane	10		"	10.0	ND	104	70-129				
Bromoform	9.5		"	10.0	ND	95.3	66-136				
Bromomethane	10		"	10.0	ND	102	30-158				
Carbon disulfide	10		"	10.0	ND	103	10-138				
Carbon tetrachloride	10		"	10.0	ND	104	71-146				
Chlorobenzene	9.9		"	10.0	ND	99.1	81-117				
Chloroethane	9.4		"	10.0	ND	93.6	51-145				
Chloroform	10		"	10.0	ND	100	80-124				
Chloromethane	8.7		"	10.0	ND	86.7	16-163				
cis-1,2-Dichloroethylene	11		"	10.0	6.7	40.4	76-125	Low Bias			
cis-1,3-Dichloropropylene	10		"	10.0	ND	102	58-131				
Dibromochloromethane	10		"	10.0	ND	104	71-129				
Dibromomethane	10		"	10.0	ND	104	76-120				
Dichlorodifluoromethane	7.6		"	10.0	ND	75.5	30-147				
Ethyl Benzene	10		"	10.0	ND	104	72-128				
Methylcyclohexane	9.2		"	10.0	ND	92.1	70-130				
Hexachlorobutadiene	10		"	10.0	ND	100	34-166				
Isopropylbenzene	9.7		"	10.0	ND	96.9	66-139				
Methyl acetate	10		"	10.0	ND	104	10-200				
Methyl tert-butyl ether (MTBE)	9.9		"	10.0	ND	98.7	75-128				
Methylene chloride	10		"	10.0	1.4	87.8	57-128				
n-Butylbenzene	10		"	10.0	ND	101	61-138				
n-Propylbenzene	9.8		"	10.0	ND	98.0	66-134				
o-Xylene	10		"	10.0	ND	100	69-126				



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
Batch BK40395 - EPA 5030B											
Matrix Spike (BK40395-MS1)	*Source sample: 14K0085-02RE1 (MW012-M)						Prepared & Analyzed: 11/10/2014				
1,2,3-Trichlorobenzene	10		ug/L	10.0	ND	102	40-161				
p- & m- Xylenes	20		"	20.0	ND	102	67-130				
p-Isopropyltoluene	10		"	10.0	ND	100	64-137				
sec-Butylbenzene	9.9		"	10.0	ND	99.3	53-155				
Styrene	10		"	10.0	ND	99.8	69-125				
tert-Butyl alcohol (TBA)	8.7		"	10.0	ND	87.1	10-130				
tert-Butylbenzene	10		"	10.0	ND	102	65-139				
Tetrachloroethylene	11		"	10.0	10	6.10	64-139	Low Bias			
Toluene	10		"	10.0	ND	102	76-123				
trans-1,2-Dichloroethylene	10		"	10.0	ND	104	79-131				
trans-1,3-Dichloropropylene	10		"	10.0	ND	102	55-130				
Trichloroethylene	18		"	10.0	78	NR	53-145	Low Bias			
Trichlorofluoromethane	9.6		"	10.0	ND	95.6	61-142				
Vinyl Chloride	9.5		"	10.0	ND	94.9	31-165				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>9.77</i>		<i>"</i>	<i>10.0</i>		<i>97.7</i>	<i>69-130</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.63</i>		<i>"</i>	<i>10.0</i>		<i>96.3</i>	<i>79-122</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.74</i>		<i>"</i>	<i>10.0</i>		<i>97.4</i>	<i>81-117</i>				
Matrix Spike Dup (BK40395-MSD1)	*Source sample: 14K0085-02RE1 (MW012-M)						Prepared & Analyzed: 11/10/2014				
1,1,1,2-Tetrachloroethane	10		ug/L	10.0	ND	101	45-161		2.92	30	
1,1,1-Trichloroethane	12		"	10.0	4.8	67.7	70-146	Low Bias	4.69	30	
1,1,2,2-Tetrachloroethane	10		"	10.0	ND	104	74-121		6.01	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0	ND	104	21-217		7.65	30	
1,1,2-Trichloroethane	10		"	10.0	ND	105	59-146		0.286	30	
1,1-Dichloroethane	11		"	10.0	1.1	102	54-146		10.4	30	
1,1-Dichloroethylene	11		"	10.0	1.6	97.1	44-165		3.88	30	
Bromochloromethane	12		"	10.0	ND	116	75-121		3.69	30	
1,2,4-Trichlorobenzene	10		"	10.0	ND	102	41-161		2.97	30	
1,2,4-Trimethylbenzene	10		"	10.0	ND	99.9	72-129		0.499	30	
1,2-Dibromo-3-chloropropane	9.7		"	10.0	ND	97.3	31-151		9.36	30	
1,2-Dibromoethane	9.5		"	10.0	ND	95.1	75-125		5.22	30	
1,2-Dichlorobenzene	10		"	10.0	ND	102	63-122		7.10	30	
1,2-Dichloroethane	10		"	10.0	ND	104	68-131		9.75	30	
1,2-Dichloropropane	10		"	10.0	ND	102	77-121		2.13	30	
1,3,5-Trimethylbenzene	10		"	10.0	ND	103	69-126		4.28	30	
1,3-Dichlorobenzene	10		"	10.0	ND	102	74-119		3.60	30	
1,4-Dichlorobenzene	9.9		"	10.0	ND	98.8	70-124		1.43	30	
1,4-Dioxane	170		"	200	ND	84.6	10-310			30	
Cyclohexane	10		"	10.0	ND	101	70-130		1.49	30	
2-Butanone	9.0		"	10.0	ND	90.4	10-193		9.88	30	
2-Hexanone	9.3		"	10.0	ND	92.7	53-133		1.85	30	
4-Methyl-2-pentanone	8.6		"	10.0	ND	86.0	38-150		0.233	30	
Acetone	6.0		"	10.0	19	NR	13-149	Low Bias		30	
Acrolein	11		"	10.0	ND	110	10-195		12.5	30	
Acrylonitrile	11		"	10.0	ND	108	37-165		6.03	30	
Benzene	9.9		"	10.0	ND	99.3	38-155		4.64	30	
Bromodichloromethane	10		"	10.0	ND	102	70-129		2.14	30	
Bromoform	9.5		"	10.0	ND	94.9	66-136		0.421	30	
Bromomethane	11		"	10.0	ND	109	30-158		6.71	30	
Carbon disulfide	11		"	10.0	ND	108	10-138		4.84	30	
Carbon tetrachloride	11		"	10.0	ND	110	71-146		5.24	30	
Chlorobenzene	10		"	10.0	ND	99.9	81-117		0.804	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 BK40395 - EPA 5030B

Matrix Spike Dup (BK40395-MSD1)	*Source sample: 14K0085-02RE1 (MW012-M)					Prepared & Analyzed: 11/10/2014					
Chloroethane	9.9		ug/L	10.0	ND	99.1	51-145		5.71	30	
Chloroform	11		"	10.0	ND	106	80-124		5.54	30	
Chloromethane	9.2		"	10.0	ND	91.5	16-163		5.39	30	
cis-1,2-Dichloroethylene	11		"	10.0	6.7	47.9	76-125	Low Bias	6.75	30	
cis-1,3-Dichloropropylene	10		"	10.0	ND	99.8	58-131		2.67	30	
Dibromochloromethane	10		"	10.0	ND	100	71-129		3.81	30	
Dibromomethane	10		"	10.0	ND	102	76-120		1.95	30	
Dichlorodifluoromethane	7.8		"	10.0	ND	78.2	30-147		3.51	30	
Ethyl Benzene	9.9		"	10.0	ND	98.6	72-128		5.23	30	
Methylcyclohexane	9.3		"	10.0	ND	93.2	70-130		1.19	30	
Hexachlorobutadiene	10		"	10.0	ND	105	34-166		4.59	30	
Isopropylbenzene	10		"	10.0	ND	102	66-139		5.23	30	
Methyl acetate	11		"	10.0	ND	111	10-200		6.13	30	
Methyl tert-butyl ether (MTBE)	10		"	10.0	ND	104	75-128		5.42	30	
Methylene chloride	11		"	10.0	1.4	99.8	57-128		11.1	30	
n-Butylbenzene	11		"	10.0	ND	106	61-138		4.55	30	
n-Propylbenzene	10		"	10.0	ND	103	66-134		5.27	30	
o-Xylene	9.8		"	10.0	ND	97.8	69-126		2.52	30	
1,2,3-Trichlorobenzene	10		"	10.0	ND	101	40-161		0.197	30	
p- & m- Xylenes	20		"	20.0	ND	98.8	67-130		3.23	30	
p-Isopropyltoluene	10		"	10.0	ND	104	64-137		3.82	30	
sec-Butylbenzene	10		"	10.0	ND	101	53-155		1.40	30	
Styrene	9.8		"	10.0	ND	98.2	69-125		1.62	30	
tert-Butyl alcohol (TBA)	8.6		"	10.0	ND	86.2	10-130		1.04	30	
tert-Butylbenzene	10		"	10.0	ND	102	65-139		0.196	30	
Tetrachloroethylene	11		"	10.0	10	3.10	64-139	Low Bias	2.76	30	
Toluene	10		"	10.0	ND	105	76-123		2.71	30	
trans-1,2-Dichloroethylene	11		"	10.0	ND	110	79-131		5.43	30	
trans-1,3-Dichloropropylene	9.4		"	10.0	ND	93.8	55-130		8.38	30	
Trichloroethylene	17		"	10.0	78	NR	53-145	Low Bias	3.96	30	
Trichlorofluoromethane	11		"	10.0	ND	106	61-142		10.2	30	
Vinyl Chloride	9.8		"	10.0	ND	98.4	31-165		3.62	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.5</i>		<i>"</i>	<i>10.0</i>		<i>105</i>	<i>69-130</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.71</i>		<i>"</i>	<i>10.0</i>		<i>97.1</i>	<i>79-122</i>				
<i>Surrogate: Toluene-d8</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>81-117</i>				



Semivolatile 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
Batch BK40396 - EPA 3510C											
Blank (BK40396-BLK1)											
Prepared: 11/10/2014 Analyzed: 11/11/2014											
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	20.0	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzoic acid	ND	50.0	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
1,1'-Biphenyl	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Dibenzofuran	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
1,2-Dichlorobenzene	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
3,3'-Dichlorobenzidine	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	0.870	0.500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								



Semivolatile 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 BK40396 - EPA 3510C

Blank (BK40396-BLK1)

Prepared: 11/10/2014 Analyzed: 11/11/2014

Hexachlorocyclopentadiene	ND	5.00	ug/L								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Isophorone	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
Naphthalene	ND	0.0500	"								
3-Nitroaniline	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
Nitrobenzene	ND	0.250	"								
4-Nitrophenol	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodimethylamine	ND	0.500	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
Surrogate: 2-Fluorophenol	32.1		"	75.4		42.6	10-47				
Surrogate: Phenol-d5	20.1		"	75.4		26.6	10-37				
Surrogate: Nitrobenzene-d5	50.2		"	50.0		100	10-109				
Surrogate: 2-Fluorobiphenyl	47.7		"	50.3		94.9	10-97				
Surrogate: 2,4,6-Tribromophenol	87.4		"	75.2		116	10-112				
Surrogate: Terphenyl-d14	56.6		"	50.2		113	10-137				



Semivolatile 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 BK40396 - EPA 3510C

LCS (BK40396-BS1)

Prepared: 11/10/2014 Analyzed: 11/11/2014

Acenaphthene	62.5	0.0500	ug/L	50.0		125	24-114	High Bias			
Acenaphthylene	56.2	0.0500	"	50.0		112	26-112				
Acetophenone	37.6	5.00	"	50.0		75.3	47-92				
Aniline	18.8	5.00	"	50.0		37.6	10-107				
Anthracene	56.9	0.0500	"	50.0		114	35-114				
Atrazine	49.8	0.500	"	50.0		99.7	43-101				
Benzaldehyde	36.8	5.00	"	50.0		73.6	17-117				
Benzo(a)anthracene	45.8	0.0500	"	50.0		91.5	38-127				
Benzo(a)pyrene	36.8	0.0500	"	50.0		73.6	30-146				
Benzo(b)fluoranthene	36.7	0.0500	"	50.0		73.3	36-145				
Benzo(g,h,i)perylene	47.6	0.0500	"	50.0		95.2	10-163				
Benzoic acid	ND	50.0	"	50.0			30-130	Low Bias			
Benzo(k)fluoranthene	36.1	0.0500	"	50.0		72.2	16-149				
Benzyl alcohol	33.2	5.00	"	50.0		66.4	18-75				
Benzyl butyl phthalate	34.9	5.00	"	50.0		69.8	28-129				
1,1'-Biphenyl	43.9	5.00	"	50.0		87.9	21-102				
4-Bromophenyl phenyl ether	57.3	5.00	"	50.0		115	38-116				
Caprolactam	9.25	5.00	"	50.0		18.5	10-29				
Carbazole	53.6	5.00	"	50.0		107	49-116				
4-Chloro-3-methylphenol	50.6	5.00	"	50.0		101	28-101				
4-Chloroaniline	39.2	5.00	"	50.0		78.5	10-154				
Bis(2-chloroethoxy)methane	57.4	5.00	"	50.0		115	27-112	High Bias			
Bis(2-chloroethyl)ether	54.3	5.00	"	50.0		109	24-114				
Bis(2-chloroisopropyl)ether	54.8	5.00	"	50.0		110	21-124				
2-Chloronaphthalene	50.7	5.00	"	50.0		101	40-96	High Bias			
2-Chlorophenol	32.2	5.00	"	50.0		64.5	35-84				
4-Chlorophenyl phenyl ether	63.1	5.00	"	50.0		126	34-112	High Bias			
Chrysene	41.0	0.0500	"	50.0		81.9	33-120				
Dibenzo(a,h)anthracene	56.0	0.0500	"	50.0		112	10-149				
Dibenzofuran	54.3	5.00	"	50.0		109	42-105	High Bias			
Di-n-butyl phthalate	55.6	5.00	"	50.0		111	36-110	High Bias			
1,4-Dichlorobenzene	42.4	5.00	"	50.0		84.8	42-82	High Bias			
1,2-Dichlorobenzene	48.8	5.00	"	50.0		97.6	42-85	High Bias			
1,3-Dichlorobenzene	39.3	5.00	"	50.0		78.6	45-80				
3,3'-Dichlorobenzidine	50.3	5.00	"	50.0		101	25-155				
2,4-Dichlorophenol	43.7	5.00	"	50.0		87.5	43-92				
Diethyl phthalate	57.9	5.00	"	50.0		116	38-112	High Bias			
2,4-Dimethylphenol	44.3	5.00	"	50.0		88.6	25-92				
Dimethyl phthalate	51.2	5.00	"	50.0		102	49-106				
4,6-Dinitro-2-methylphenol	63.4	5.00	"	50.0		127	10-135				
2,4-Dinitrophenol	38.7	5.00	"	50.0		77.4	10-149				
2,4-Dinitrotoluene	51.2	5.00	"	50.0		102	41-114				
2,6-Dinitrotoluene	52.7	5.00	"	50.0		105	49-106				
Di-n-octyl phthalate	41.2	5.00	"	50.0		82.4	12-149				
1,2-Diphenylhydrazine (as Azobenzene)	70.7	5.00	"	50.0		141	16-137	High Bias			
Bis(2-ethylhexyl)phthalate	47.9	0.500	"	50.0		95.8	10-171				
Fluoranthene	57.1	0.0500	"	50.0		114	33-126				
Fluorene	62.6	0.0500	"	50.0		125	28-117	High Bias			
Hexachlorobenzene	62.2	0.0200	"	50.0		124	27-120	High Bias			
Hexachlorobutadiene	51.8	0.500	"	50.0		104	25-106				
Hexachlorocyclopentadiene	5.88	5.00	"	50.0		11.8	10-99				



Semivolatile 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 BK40396 - EPA 3510C

LCS (BK40396-BS1)

Prepared: 11/10/2014 Analyzed: 11/11/2014

Hexachloroethane	50.4	0.500	ug/L	50.0		101	33-84	High Bias			
Indeno(1,2,3-cd)pyrene	54.3	0.0500	"	50.0		109	10-150				
Isophorone	50.0	5.00	"	50.0		99.9	29-115				
2-Methylnaphthalene	56.4	5.00	"	50.0		113	33-101	High Bias			
2-Methylphenol	29.2	5.00	"	50.0		58.4	10-90				
3- & 4-Methylphenols	26.7	5.00	"	50.0		53.3	10-101				
Naphthalene	50.9	0.0500	"	50.0		102	30-99	High Bias			
3-Nitroaniline	45.0	5.00	"	50.0		89.9	29-128				
4-Nitroaniline	55.6	5.00	"	50.0		111	15-143				
2-Nitroaniline	44.8	5.00	"	50.0		89.6	31-122				
Nitrobenzene	49.6	0.250	"	50.0		99.3	32-113				
4-Nitrophenol	3.11	5.00	"	50.0		6.22	10-112	Low Bias			
2-Nitrophenol	42.6	5.00	"	50.0		85.2	37-97				
N-nitroso-di-n-propylamine	49.6	5.00	"	50.0		99.1	36-118				
N-Nitrosodimethylamine	10.4	0.500	"	50.0		20.8	10-63				
N-Nitrosodiphenylamine	71.0	5.00	"	50.0		142	27-145				
Pentachlorophenol	30.2	0.250	"	50.0		60.4	19-127				
Phenanthrene	59.4	0.0500	"	50.0		119	31-112	High Bias			
Phenol	14.7	5.00	"	50.0		29.3	10-37				
Pyrene	37.8	0.0500	"	50.0		75.5	42-125				
1,2,4,5-Tetrachlorobenzene	43.6	5.00	"	50.0		87.2	28-105				
2,3,4,6-Tetrachlorophenol	42.3	5.00	"	50.0		84.6	30-130				
1,2,4-Trichlorobenzene	48.6	5.00	"	50.0		97.2	35-91	High Bias			
2,4,6-Trichlorophenol	46.6	5.00	"	50.0		93.2	41-107				
2,4,5-Trichlorophenol	43.2	5.00	"	50.0		86.3	36-112				
Surrogate: 2-Fluorophenol	26.1		"	75.4		34.7	10-47				
Surrogate: Phenol-d5	20.2		"	75.4		26.8	10-37				
Surrogate: Nitrobenzene-d5	48.7		"	50.0		97.5	10-109				
Surrogate: 2-Fluorobiphenyl	50.6		"	50.3		101	10-97				
Surrogate: 2,4,6-Tribromophenol	101		"	75.2		134	10-112				
Surrogate: Terphenyl-d14	37.4		"	50.2		74.5	10-137				



Semivolatile 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
Batch BK40396 - EPA 3510C											
LCS (BK40396-BS2)						Prepared: 11/10/2014 Analyzed: 11/11/2014					
Acenaphthene	0.530	0.0500	ug/L	1.00		53.0	24-114				
Acenaphthylene	0.540	0.0500	"	1.00		54.0	26-112				
Acetophenone	ND	5.00	"				47-92				
Aniline	ND	5.00	"				10-107				
Anthracene	0.640	0.0500	"	1.00		64.0	35-114				
Atrazine	ND	0.500	"				43-101				
Benzaldehyde	ND	5.00	"				17-117				
Benzo(a)anthracene	0.600	0.0500	"	1.00		60.0	38-127				
Benzo(a)pyrene	0.720	0.0500	"	1.00		72.0	30-146				
Benzo(b)fluoranthene	0.720	0.0500	"	1.00		72.0	36-145				
Benzo(g,h,i)perylene	0.680	0.0500	"	1.00		68.0	10-163				
Benzoic acid	ND	50.0	"				30-130				
Benzo(k)fluoranthene	0.910	0.0500	"	1.00		91.0	16-149				
Benzyl alcohol	ND	5.00	"				18-75				
Benzyl butyl phthalate	ND	5.00	"				28-129				
1,1'-Biphenyl	ND	5.00	"				21-102				
4-Bromophenyl phenyl ether	ND	5.00	"				38-116				
Caprolactam	ND	5.00	"				10-29				
Carbazole	ND	5.00	"				49-116				
4-Chloro-3-methylphenol	ND	5.00	"				28-101				
4-Chloroaniline	ND	5.00	"				10-154				
Bis(2-chloroethoxy)methane	ND	5.00	"				27-112				
Bis(2-chloroethyl)ether	ND	5.00	"				24-114				
Bis(2-chloroisopropyl)ether	ND	5.00	"				21-124				
2-Chloronaphthalene	ND	5.00	"				40-96				
2-Chlorophenol	ND	5.00	"				35-84				
4-Chlorophenyl phenyl ether	ND	5.00	"				34-112				
Chrysene	0.680	0.0500	"	1.00		68.0	33-120				
Dibenzo(a,h)anthracene	0.720	0.0500	"	1.00		72.0	10-149				
Dibenzofuran	ND	5.00	"				42-105				
Di-n-butyl phthalate	ND	5.00	"				36-110				
1,4-Dichlorobenzene	ND	5.00	"				42-82				
1,2-Dichlorobenzene	ND	5.00	"				42-85				
1,3-Dichlorobenzene	ND	5.00	"				45-80				
3,3'-Dichlorobenzidine	ND	5.00	"				25-155				
2,4-Dichlorophenol	ND	5.00	"				43-92				
Diethyl phthalate	ND	5.00	"				38-112				
2,4-Dimethylphenol	ND	5.00	"				25-92				
Dimethyl phthalate	ND	5.00	"				49-106				
4,6-Dinitro-2-methylphenol	ND	5.00	"				10-135				
2,4-Dinitrophenol	ND	5.00	"				10-149				
2,4-Dinitrotoluene	ND	5.00	"				41-114				
2,6-Dinitrotoluene	ND	5.00	"				49-106				
Di-n-octyl phthalate	ND	5.00	"				12-149				
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"				16-137				
Bis(2-ethylhexyl)phthalate	0.540	0.500	"				10-171				
Fluoranthene	0.640	0.0500	"	1.00		64.0	33-126				
Fluorene	0.540	0.0500	"	1.00		54.0	28-117				
Hexachlorobenzene	ND	0.0200	"				27-120				
Hexachlorobutadiene	ND	0.500	"				25-106				
Hexachlorocyclopentadiene	ND	5.00	"				10-99				



Semivolatile 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 BK40396 - EPA 3510C

LCS (BK40396-BS2)

Prepared: 11/10/2014 Analyzed: 11/11/2014

Hexachloroethane	ND	0.500	ug/L				33-84				
Indeno(1,2,3-cd)pyrene	0.700	0.0500	"	1.00		70.0	10-150				
Isophorone	ND	5.00	"				29-115				
2-Methylnaphthalene	ND	5.00	"				33-101				
2-Methylphenol	ND	5.00	"				10-90				
3- & 4-Methylphenols	ND	5.00	"				10-101				
Naphthalene	0.500	0.0500	"	1.00		50.0	30-99				
3-Nitroaniline	ND	5.00	"				29-128				
4-Nitroaniline	ND	5.00	"				15-143				
2-Nitroaniline	ND	5.00	"				31-122				
Nitrobenzene	ND	0.250	"				32-113				
4-Nitrophenol	ND	5.00	"				10-112				
2-Nitrophenol	ND	5.00	"				37-97				
N-nitroso-di-n-propylamine	ND	5.00	"				36-118				
N-Nitrosodimethylamine	ND	0.500	"				10-63				
N-Nitrosodiphenylamine	ND	5.00	"				27-145				
Pentachlorophenol	ND	0.250	"				19-127				
Phenanthrene	0.500	0.0500	"	1.00		50.0	31-112				
Phenol	ND	5.00	"				10-37				
Pyrene	0.660	0.0500	"	1.00		66.0	42-125				
1,2,4,5-Tetrachlorobenzene	ND	5.00	"				28-105				
2,3,4,6-Tetrachlorophenol	ND	5.00	"				30-130				
1,2,4-Trichlorobenzene	ND	5.00	"				35-91				
2,4,6-Trichlorophenol	ND	5.00	"				41-107				
2,4,5-Trichlorophenol	ND	5.00	"				36-112				
<i>Surrogate: 2-Fluorophenol</i>	<i>0.00</i>		<i>"</i>	<i>75.4</i>			<i>10-47</i>				
<i>Surrogate: Phenol-d5</i>	<i>0.00</i>		<i>"</i>	<i>75.4</i>			<i>10-37</i>				
<i>Surrogate: Nitrobenzene-d5</i>	<i>0.00</i>		<i>"</i>	<i>50.0</i>			<i>10-109</i>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.00</i>		<i>"</i>	<i>50.3</i>			<i>10-97</i>				
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0.00</i>		<i>"</i>	<i>75.2</i>			<i>10-112</i>				
<i>Surrogate: Terphenyl-d14</i>	<i>0.00</i>		<i>"</i>	<i>50.2</i>			<i>10-137</i>				



Metals by ICP - 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 BK40477 - EPA 3010A

Blank (BK40477-BLK1)

Prepared & Analyzed: 11/11/2014

Aluminum - Dissolved	ND	0.010	mg/L
Antimony - Dissolved	ND	0.005	"
Arsenic - Dissolved	ND	0.004	"
Barium - Dissolved	ND	0.010	"
Beryllium - Dissolved	ND	0.001	"
Cadmium - Dissolved	ND	0.003	"
Calcium - Dissolved	ND	0.050	"
Chromium - Dissolved	ND	0.005	"
Cobalt - Dissolved	ND	0.005	"
Copper - Dissolved	ND	0.003	"
Iron - Dissolved	ND	0.020	"
Lead - Dissolved	ND	0.003	"
Magnesium - Dissolved	ND	0.050	"
Manganese - Dissolved	ND	0.005	"
Nickel - Dissolved	ND	0.005	"
Potassium - Dissolved	ND	0.050	"
Selenium - Dissolved	ND	0.010	"
Silver - Dissolved	ND	0.005	"
Sodium - Dissolved	ND	0.100	"
Thallium - Dissolved	ND	0.005	"
Vanadium - Dissolved	ND	0.010	"
Zinc - Dissolved	ND	0.010	"

Duplicate (BK40477-DUP1)

*Source sample: 14K0085-02 (MW012-M)

Prepared & Analyzed: 11/11/2014

Aluminum - Dissolved	ND	0.010	mg/L	ND	20
Antimony - Dissolved	ND	0.005	"	ND	20
Arsenic - Dissolved	ND	0.004	"	ND	20
Barium - Dissolved	0.060	0.010	"	0.059	0.259 20
Beryllium - Dissolved	ND	0.001	"	ND	20
Cadmium - Dissolved	ND	0.003	"	ND	20
Calcium - Dissolved	99.4	0.050	"	99.9	0.425 20
Chromium - Dissolved	ND	0.005	"	ND	20
Cobalt - Dissolved	ND	0.005	"	ND	20
Copper - Dissolved	ND	0.003	"	ND	20
Iron - Dissolved	0.034	0.020	"	0.030	11.0 20
Lead - Dissolved	ND	0.003	"	ND	20
Magnesium - Dissolved	18.9	0.050	"	18.8	0.160 20
Manganese - Dissolved	0.417	0.005	"	0.418	0.0578 20
Nickel - Dissolved	ND	0.005	"	ND	20
Potassium - Dissolved	6.04	0.050	"	6.03	0.232 20
Selenium - Dissolved	0.014	0.010	"	0.017	18.1 20
Silver - Dissolved	ND	0.005	"	ND	20
Sodium - Dissolved	47.6	0.100	"	47.5	0.219 20
Thallium - Dissolved	ND	0.005	"	ND	20
Vanadium - Dissolved	ND	0.010	"	ND	20
Zinc - Dissolved	ND	0.010	"	ND	20



Metals by ICP - 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 BK40477 - EPA 3010A

Matrix Spike (BK40477-MS1)		*Source sample: 14K0085-02 (MW012-M)					Prepared & Analyzed: 11/11/2014				
Antimony - Dissolved	0.250	0.005	mg/L	0.250	ND	100	75-125				
Arsenic - Dissolved	2.02	0.004	"	2.00	ND	101	75-125				
Barium - Dissolved	2.16	0.010	"	2.00	0.059	105	75-125				
Beryllium - Dissolved	0.051	0.001	"	0.0500	ND	102	75-125				
Cadmium - Dissolved	0.051	0.003	"	0.0500	ND	101	75-125				
Chromium - Dissolved	0.197	0.005	"	0.200	ND	98.7	75-125				
Cobalt - Dissolved	0.515	0.005	"	0.500	ND	103	75-125				
Copper - Dissolved	0.256	0.003	"	0.250	ND	102	75-125				
Iron - Dissolved	1.07	0.020	"	1.00	0.030	104	75-125				
Lead - Dissolved	0.487	0.003	"	0.500	ND	97.3	75-125				
Manganese - Dissolved	0.945	0.005	"	0.500	0.418	105	75-125				
Nickel - Dissolved	0.514	0.005	"	0.500	ND	103	75-125				
Selenium - Dissolved	2.00	0.010	"	2.00	0.017	99.2	75-125				
Silver - Dissolved	0.042	0.005	"	0.0500	ND	83.8	75-125				
Thallium - Dissolved	1.98	0.005	"	2.00	ND	99.1	75-125				
Vanadium - Dissolved	0.509	0.010	"	0.500	ND	102	75-125				
Zinc - Dissolved	0.526	0.010	"	0.500	ND	105	75-125				

Reference (BK40477-SRM1)		Prepared & Analyzed: 11/11/2014									
Aluminum - Dissolved	1.11	0.010	mg/L	1.30		85.0	82.3-115				
Antimony - Dissolved	0.596	0.005	"	0.633		94.2	81.4-115				
Arsenic - Dissolved	0.393	0.004	"	0.438		89.6	83.3-116				
Barium - Dissolved	0.378	0.010	"	0.365		104	84.9-115				
Beryllium - Dissolved	0.222	0.001	"	0.227		97.9	85-115				
Cadmium - Dissolved	0.320	0.003	"	0.334		95.7	85-115				
Chromium - Dissolved	0.774	0.005	"	0.797		97.2	84.9-115				
Cobalt - Dissolved	0.496	0.005	"	0.477		104	84.9-115				
Copper - Dissolved	0.174	0.003	"	0.177		98.5	84.7-115				
Iron - Dissolved	2.65	0.020	"	2.58		103	84.9-115				
Lead - Dissolved	1.45	0.003	"	1.47		98.7	85-115				
Manganese - Dissolved	0.558	0.005	"	0.538		104	84.9-115				
Nickel - Dissolved	1.67	0.005	"	1.71		97.5	88.3-112				
Selenium - Dissolved	0.457	0.010	"	0.521		87.8	85-115				
Silver - Dissolved	0.360	0.005	"	0.384		93.9	84.9-115				
Thallium - Dissolved	0.388	0.005	"	0.390		99.5	81.5-117				
Vanadium - Dissolved	1.60	0.010	"	1.68		95.0	85.1-115				
Zinc - Dissolved	1.47	0.010	"	1.53		96.4	85-115				



Metals by ICP - 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 BK40477 - EPA 3010A

Reference (BK40477-SRM2)

Prepared & Analyzed: 11/11/2014

Calcium - Dissolved	44.7	0.050	mg/L	44.2		101	86-114				
Magnesium - Dissolved	93.2	0.050	"	90.7		103	86-114				
Potassium - Dissolved	63.8	0.050	"	60.9		105	84.9-115				
Sodium - Dissolved	73.1	0.100	"	73.8		99.1	85-115				

Batch BK40478 - EPA 3010A

Blank (BK40478-BLK1)

Prepared: 11/11/2014 Analyzed: 11/12/2014

Aluminum	ND	0.010	mg/L								
Antimony	ND	0.005	"								
Arsenic	ND	0.004	"								
Barium	ND	0.010	"								
Beryllium	ND	0.001	"								
Cadmium	ND	0.003	"								
Calcium	ND	0.050	"								
Chromium	ND	0.005	"								
Cobalt	ND	0.005	"								
Copper	ND	0.003	"								
Iron	ND	0.020	"								
Lead	ND	0.003	"								
Magnesium	ND	0.050	"								
Manganese	ND	0.005	"								
Nickel	ND	0.005	"								
Potassium	ND	0.050	"								
Selenium	ND	0.010	"								
Silver	ND	0.005	"								
Sodium	ND	0.100	"								
Thallium	ND	0.005	"								
Vanadium	ND	0.010	"								
Zinc	ND	0.010	"								



Metals by ICP - 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 BK40478 - EPA 3010A

Duplicate (BK40478-DUP1)		*Source sample: 14K0085-02 (MW012-M)					Prepared: 11/11/2014 Analyzed: 11/12/2014				
Aluminum	ND	0.010	mg/L		ND					20	
Antimony	ND	0.005	"		ND					20	
Arsenic	ND	0.004	"		ND					20	
Barium	0.059	0.010	"		0.060				1.36	20	
Beryllium	ND	0.001	"		ND					20	
Cadmium	ND	0.003	"		ND					20	
Calcium	99.9	0.050	"		99.5				0.493	20	
Chromium	ND	0.005	"		ND					20	
Cobalt	ND	0.005	"		ND					20	
Copper	ND	0.003	"		ND					20	
Iron	ND	0.020	"		ND					20	
Lead	ND	0.003	"		ND					20	
Magnesium	18.7	0.050	"		18.6				0.576	20	
Manganese	0.413	0.005	"		0.417				1.05	20	
Nickel	ND	0.005	"		ND					20	
Potassium	5.98	0.050	"		5.98				0.0558	20	
Selenium	0.014	0.010	"		0.014				0.104	20	
Silver	ND	0.005	"		ND					20	
Sodium	46.6	0.100	"		47.0				0.946	20	
Thallium	ND	0.005	"		ND					20	
Vanadium	ND	0.010	"		ND					20	
Zinc	ND	0.010	"		ND					20	

Matrix Spike (BK40478-MS1)		*Source sample: 14K0085-02 (MW012-M)					Prepared: 11/11/2014 Analyzed: 11/12/2014				
Antimony	0.243	0.005	mg/L	0.250	ND	97.2	75-125				
Arsenic	1.99	0.004	"	2.00	ND	99.5	75-125				
Barium	2.13	0.010	"	2.00	0.060	103	75-125				
Beryllium	0.050	0.001	"	0.0500	ND	100	75-125				
Cadmium	0.050	0.003	"	0.0500	ND	99.4	75-125				
Chromium	0.195	0.005	"	0.200	ND	97.3	75-125				
Cobalt	0.509	0.005	"	0.500	ND	102	75-125				
Copper	0.254	0.003	"	0.250	ND	102	75-125				
Iron	1.02	0.020	"	1.00	ND	102	75-125				
Lead	0.480	0.003	"	0.500	ND	96.0	75-125				
Manganese	0.930	0.005	"	0.500	0.417	103	75-125				
Nickel	0.509	0.005	"	0.500	ND	102	75-125				
Selenium	1.96	0.010	"	2.00	0.014	97.2	75-125				
Silver	0.041	0.005	"	0.0500	ND	82.1	75-125				
Thallium	1.91	0.005	"	2.00	ND	95.3	75-125				
Vanadium	0.498	0.010	"	0.500	ND	99.6	75-125				
Zinc	0.521	0.010	"	0.500	ND	104	75-125				



Metals by ICP - 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 BK40478 - EPA 3010A

Reference (BK40478-SRM1)						Prepared: 11/11/2014 Analyzed: 11/12/2014					
Aluminum	1.13	0.010	mg/L	1.30		86.7	82.3-115				
Antimony	0.599	0.005	"	0.633		94.6	81.4-115				
Arsenic	0.391	0.004	"	0.438		89.2	83.3-116				
Barium	0.381	0.010	"	0.365		104	84.9-115				
Beryllium	0.222	0.001	"	0.227		97.9	85-115				
Cadmium	0.321	0.003	"	0.334		96.0	85-115				
Chromium	0.782	0.005	"	0.797		98.2	84.9-115				
Cobalt	0.499	0.005	"	0.477		105	84.9-115				
Copper	0.178	0.003	"	0.177		101	84.7-115				
Iron	2.69	0.020	"	2.58		104	84.9-115				
Lead	1.49	0.003	"	1.47		101	85-115				
Manganese	0.563	0.005	"	0.538		105	84.9-115				
Nickel	1.68	0.005	"	1.71		98.3	88.3-112				
Selenium	0.451	0.010	"	0.521		86.5	85-115				
Silver	0.366	0.005	"	0.384		95.3	84.9-115				
Thallium	0.393	0.005	"	0.390		101	81.5-117				
Vanadium	1.61	0.010	"	1.68		95.7	85.1-115				
Zinc	1.46	0.010	"	1.53		95.6	85-115				

Reference (BK40478-SRM2)						Prepared: 11/11/2014 Analyzed: 11/12/2014					
Calcium	44.5	0.050	mg/L	44.2		101	86-114				
Magnesium	92.9	0.050	"	90.7		102	86-114				
Potassium	64.1	0.050	"	60.9		105	84.9-115				
Sodium	73.2	0.100	"	73.8		99.2	85-115				



Mercury by EPA 7000/200 Series Methods - 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 BK40384 - EPA 7473 water

Blank (BK40384-BLK1)

Prepared: 11/10/2014 Analyzed: 11/11/2014

Mercury - Dissolved	ND	0.00020	mg/L								
Mercury	ND	0.00020	"								

Duplicate (BK40384-DUP1)

*Source sample: 14K0085-02 (MW012-M)

Prepared: 11/10/2014 Analyzed: 11/11/2014

Mercury	ND	0.00020	mg/L		ND					20	
Mercury - Dissolved	ND	0.00020	"		ND					20	

Matrix Spike (BK40384-MS1)

*Source sample: 14K0085-02 (MW012-M)

Prepared: 11/10/2014 Analyzed: 11/11/2014

Mercury	0.00166		mg/kg	0.00200	ND	82.8	75-125				
Mercury - Dissolved	0.00243		mg/L	0.00200	ND	121	75-125				

Reference (BK40384-SRM1)

Prepared: 11/10/2014 Analyzed: 11/11/2014

Mercury - Dissolved	0.0017490		mg/L	0.00230		76.0	61.3-135				
Mercury	0.00175		mg/kg	0.00230		76.0	61.3-135				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
14K0085-01	MW012-S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0085-02	MW012-M	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0085-03	MW012-D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0085-04	MW013-S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0085-05	MW013-M	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0085-06	MW013-D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0085-07	MW014-S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0085-08	MW015-S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0085-09	TB01	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0085-10	DUP01	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

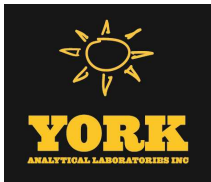


Notes and Definitions

S-08	The recovery of this surrogate was outside of QC limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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).
Cal-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20% AND correlation coefficient <0.990 for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

*	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.

Corrective Action: Client provided time of collection for 4 samples via email (times not listed on COC).

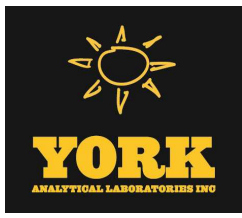
Field Chain-of-Custody Record

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. Signature binds you to York's Std. Terms & Conditions.

York Project No. 14K0085

[illegible]



Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Gerald Nicholls

Report Date: 11/12/2014

Client Project ID: 170329301

York Project (SDG) No.: 14K0115

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 11/12/2014
Client Project ID: 170329301
York Project (SDG) No.: 14K0115

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Gerald Nicholls

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 04, 2014 and listed below. The project was identified as your project: **170329301**.

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>
14K0115-01	MW014-M	Water	11/04/2014	11/04/2014
14K0115-02	MW014-D	Water	11/04/2014	11/04/2014
14K0115-03	MW015-M	Water	11/04/2014	11/04/2014
14K0115-04	MW015-D	Water	11/04/2014	11/04/2014
14K0115-05	MW016-S	Water	11/04/2014	11/04/2014
14K0115-06	FB01_11.04.14	Water	11/04/2014	11/04/2014
14K0115-07	TB02	Water	11/03/2014	11/04/2014
14K0115-08	SV004-11.04.14	Soil Vapor	11/04/2014	11/04/2014
14K0115-09	SV005-11.04.14	Soil Vapor	11/04/2014	11/04/2014
14K0115-10	SV006-11.04.14	Soil Vapor	11/04/2014	11/04/2014
14K0115-11	SV007-11.04.14	Soil Vapor	11/04/2014	11/04/2014
14K0115-12	SV008-11.04.14	Soil Vapor	11/04/2014	11/04/2014
14K0115-13	OA001-11.04.14	Soil Vapor	11/04/2014	11/04/2014
14K0115-14	DUP01-11.04.14	Soil Vapor	11/04/2014	11/04/2014

General Notes for York Project (SDG) No.: 14K0115

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

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 11/12/2014





Sample Information

Client Sample ID: MW014-M

York Sample ID: 14K0115-01

York Project (SDG) No.

14K0115

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 4, 2014 10:10 am

Date Received

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
75-34-3	1,1-Dichloroethane	0.22	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
67-66-3	Chloroform	0.26	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
156-59-2	cis-1,2-Dichloroethylene	3.0		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS



Sample Information

Client Sample ID: MW014-M

York Sample ID: 14K0115-01

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 10:10 am

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	3.2		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
95-47-6	o-Xylene	0.21	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
127-18-4	Tetrachloroethylene	33		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
156-60-5	trans-1,2-Dichloroethylene	0.25	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
79-01-6	Trichloroethylene	37		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
1330-20-7	* Xylenes, Total	0.64	J	ug/L	0.60	1.5	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:17	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	113 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	103 %	79-122								
2037-26-5	Surrogate: Toluene-d8	104 %	81-117								



Sample Information

Client Sample ID: MW014-M

York Sample ID: 14K0115-01

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 10:10 am

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
98-86-2	Acetophenone	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
62-53-3	Aniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
120-12-7	Anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
1912-24-9	Atrazine	ND		ug/L	0.526	0.526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
100-52-7	Benzaldehyde	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
92-87-5	Benzidine	ND		ug/L	10.5	21.1	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
65-85-0	Benzoic acid	ND		ug/L	26.3	52.6	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
105-60-2	Caprolactam	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
86-74-8	Carbazole	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
218-01-9	Chrysene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
132-64-9	Dibenzofuran	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH



Sample Information

Client Sample ID: MW014-M

York Sample ID: 14K0115-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0115

170329301

Water

November 4, 2014 10:10 am

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
117-81-7	Bis(2-ethylhexyl)phthalate	2.53		ug/L	0.526	0.526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
206-44-0	Fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
86-73-7	Fluorene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0211	0.0211	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.526	0.526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
67-72-1	Hexachloroethane	ND		ug/L	0.526	0.526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
78-59-1	Isophorone	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
95-48-7	2-Methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
91-20-3	Naphthalene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
98-95-3	Nitrobenzene	ND		ug/L	0.263	0.263	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.526	0.526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.263	0.263	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
85-01-8	Phenanthrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
108-95-2	Phenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
129-00-0	Pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:38	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH



Sample Information

Client Sample ID: MW014-M

York Sample ID: 14K0115-01

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 10:10 am

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:12	KH
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	25.8 %			10-47						
4165-62-2	Surrogate: Phenol-d5	17.8 %			10-37						
4165-60-0	Surrogate: Nitrobenzene-d5	42.9 %			10-109						
321-60-8	Surrogate: 2-Fluorobiphenyl	36.6 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	64.2 %			10-112						
1718-51-0	Surrogate: Terphenyl-d14	56.7 %			10-137						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-39-3	Barium	0.123		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-70-2	Calcium	97.9		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7439-89-6	Iron	0.040		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7439-95-4	Magnesium	26.6		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7439-96-5	Manganese	0.497		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-09-7	Potassium	8.12		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7782-49-2	Selenium	0.018		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-23-5	Sodium	63.6		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW
7440-66-6	Zinc	0.014		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:38	MW

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

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

Client Sample ID: MW014-M

York Sample ID: 14K0115-01

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 10:10 am

Date Received
11/04/2014

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-39-3	Barium	0.123		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-70-2	Calcium	99.3		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7439-95-4	Magnesium	26.6		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7439-96-5	Manganese	0.488		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-09-7	Potassium	8.15		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7782-49-2	Selenium	0.017		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-23-5	Sodium	64.1		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW
7440-66-6	Zinc	0.011		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:49	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD



Sample Information

Client Sample ID: MW014-D

York Sample ID: 14K0115-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0115

170329301

Water

November 4, 2014 12:00 pm

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
67-66-3	Chloroform	0.21	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
156-59-2	cis-1,2-Dichloroethylene	0.40	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS



Sample Information

Client Sample ID: MW014-D

York Sample ID: 14K0115-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0115

170329301

Water

November 4, 2014 12:00 pm

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	5.2		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
95-47-6	o-Xylene	0.35	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
179601-23-1	p- & m- Xylenes	0.67	J	ug/L	0.50	1.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
127-18-4	Tetrachloroethylene	18		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
79-01-6	Trichloroethylene	7.0		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
1330-20-7	* Xylenes, Total	1.0	J	ug/L	0.60	1.5	1	EPA 8260C	11/10/2014 08:15	11/10/2014 18:50	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	92.8 %	79-122								
2037-26-5	Surrogate: Toluene-d8	103 %	81-117								



Sample Information

Client Sample ID: MW014-D

York Sample ID: 14K0115-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0115

170329301

Water

November 4, 2014 12:00 pm

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
98-86-2	Acetophenone	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
62-53-3	Aniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
120-12-7	Anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
1912-24-9	Atrazine	ND		ug/L	0.541	0.541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
100-52-7	Benzaldehyde	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
92-87-5	Benzidine	ND		ug/L	10.8	21.6	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
65-85-0	Benzoic acid	ND		ug/L	27.0	54.1	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
105-60-2	Caprolactam	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
86-74-8	Carbazole	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
132-64-9	Dibenzofuran	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH



Sample Information

Client Sample ID: MW014-D

York Sample ID: 14K0115-02

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 12:00 pm

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
117-81-7	Bis(2-ethylhexyl)phthalate	30.3		ug/L	0.541	0.541	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
206-44-0	Fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0216	0.0216	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.541	0.541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
67-72-1	Hexachloroethane	ND		ug/L	0.541	0.541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
78-59-1	Isophorone	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
95-48-7	2-Methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
98-95-3	Nitrobenzene	ND		ug/L	0.270	0.270	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.541	0.541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.270	0.270	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
85-01-8	Phenanthrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
108-95-2	Phenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
129-00-0	Pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:08	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH



Sample Information

Client Sample ID: MW014-D

York Sample ID: 14K0115-02

York Project (SDG) No.

14K0115

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 4, 2014 12:00 pm

Date Received

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 23:45	KH
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	33.2 %			10-47						
4165-62-2	Surrogate: Phenol-d5	21.5 %			10-37						
4165-60-0	Surrogate: Nitrobenzene-d5	47.6 %			10-109						
321-60-8	Surrogate: 2-Fluorobiphenyl	40.0 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	67.8 %			10-112						
1718-51-0	Surrogate: Terphenyl-d14	58.9 %			10-137						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-39-3	Barium	0.137		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-70-2	Calcium	101		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7439-89-6	Iron	0.159		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7439-95-4	Magnesium	32.0		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7439-96-5	Manganese	0.133		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-09-7	Potassium	6.23		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7782-49-2	Selenium	0.023		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-23-5	Sodium	44.9		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW
7440-66-6	Zinc	0.021		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:43	MW

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

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

Client Sample ID: MW014-D

York Sample ID: 14K0115-02

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 12:00 pm

Date Received
11/04/2014

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-39-3	Barium	0.134		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-70-2	Calcium	101		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7439-95-4	Magnesium	32.6		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7439-96-5	Manganese	0.092		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-09-7	Potassium	6.29		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7782-49-2	Selenium	0.024		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-23-5	Sodium	45.0		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW
7440-66-6	Zinc	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:54	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD



Sample Information

Client Sample ID: MW015-M

York Sample ID: 14K0115-03

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 9:48 am

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
75-34-3	1,1-Dichloroethane	0.56		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
95-50-1	1,2-Dichlorobenzene	0.29	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
67-64-1	Acetone	1.7	Cal-E, CCV-E , J, B	ug/L	1.0	2.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS



Sample Information

Client Sample ID: MW015-M

York Sample ID: 14K0115-03

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 9:48 am

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	1.2		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	4.5		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
95-47-6	o-Xylene	0.25	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
179601-23-1	p- & m- Xylenes	0.55	J	ug/L	0.50	1.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
127-18-4	Tetrachloroethylene	16		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
79-01-6	Trichloroethylene	4.7		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
1330-20-7	* Xylenes, Total	0.80	J	ug/L	0.60	1.5	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:23	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	112 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	106 %	79-122								
2037-26-5	Surrogate: Toluene-d8	106 %	81-117								



Sample Information

Client Sample ID: MW015-M

York Sample ID: 14K0115-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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14K0115

170329301

Water

November 4, 2014 9:48 am

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
98-86-2	Acetophenone	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
62-53-3	Aniline	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
120-12-7	Anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
1912-24-9	Atrazine	ND		ug/L	0.606	0.606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
100-52-7	Benzaldehyde	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
92-87-5	Benzidine	ND		ug/L	12.1	24.2	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
65-85-0	Benzoic acid	ND		ug/L	30.3	60.6	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
100-51-6	Benzyl alcohol	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
105-60-2	Caprolactam	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
86-74-8	Carbazole	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
106-47-8	4-Chloroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
95-57-8	2-Chlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
218-01-9	Chrysene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
132-64-9	Dibenzofuran	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
84-66-2	Diethyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH



Sample Information

Client Sample ID: MW015-M

York Sample ID: 14K0115-03

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 9:48 am

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
131-11-3	Dimethyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
117-81-7	Bis(2-ethylhexyl)phthalate	1.87		ug/L	0.606	0.606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
206-44-0	Fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
86-73-7	Fluorene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0242	0.0242	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.606	0.606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
67-72-1	Hexachloroethane	ND		ug/L	0.606	0.606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
78-59-1	Isophorone	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
95-48-7	2-Methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
91-20-3	Naphthalene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
99-09-2	3-Nitroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
100-01-6	4-Nitroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
88-74-4	2-Nitroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
98-95-3	Nitrobenzene	ND		ug/L	0.303	0.303	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
100-02-7	4-Nitrophenol	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
88-75-5	2-Nitrophenol	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.606	0.606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.303	0.303	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
85-01-8	Phenanthrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
108-95-2	Phenol	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
129-00-0	Pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:39	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH



Sample Information

Client Sample ID: MW015-M

York Sample ID: 14K0115-03

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 9:48 am

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:17	KH
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	27.7 %			10-47						
4165-62-2	Surrogate: Phenol-d5	20.1 %			10-37						
4165-60-0	Surrogate: Nitrobenzene-d5	42.2 %			10-109						
321-60-8	Surrogate: 2-Fluorobiphenyl	33.9 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	59.2 %			10-112						
1718-51-0	Surrogate: Terphenyl-d14	48.1 %			10-137						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-39-3	Barium	0.091		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-70-2	Calcium	103		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7439-89-6	Iron	0.036		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7439-95-4	Magnesium	23.6		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7439-96-5	Manganese	0.726		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-09-7	Potassium	5.51		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7782-49-2	Selenium	0.017		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-23-5	Sodium	93.7		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW
7440-66-6	Zinc	0.012		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:48	MW

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

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

Client Sample ID: MW015-M

York Sample ID: 14K0115-03

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 9:48 am

Date Received
11/04/2014

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-39-3	Barium	0.092		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-70-2	Calcium	105		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7439-95-4	Magnesium	23.9		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7439-96-5	Manganese	0.727		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-09-7	Potassium	5.52		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7782-49-2	Selenium	0.018		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-23-5	Sodium	93.2		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW
7440-66-6	Zinc	0.013		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/11/2014 23:59	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD



Sample Information

Client Sample ID: MW015-D

York Sample ID: 14K0115-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0115

170329301

Water

November 4, 2014 12:45 pm

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
67-66-3	Chloroform	0.24	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
156-59-2	cis-1,2-Dichloroethylene	0.32	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS



Sample Information

Client Sample ID: MW015-D

York Sample ID: 14K0115-04

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 12:45 pm

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	1.7		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
95-47-6	o-Xylene	0.31	J	ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
179601-23-1	p- & m- Xylenes	0.60	J	ug/L	0.50	1.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
127-18-4	Tetrachloroethylene	14		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
79-01-6	Trichloroethylene	2.4		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
1330-20-7	* Xylenes, Total	0.91	J	ug/L	0.60	1.5	1	EPA 8260C	11/10/2014 08:15	11/10/2014 19:56	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	109 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	95.0 %	79-122								
2037-26-5	Surrogate: Toluene-d8	102 %	81-117								



Sample Information

Client Sample ID: MW015-D

York Sample ID: 14K0115-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0115

170329301

Water

November 4, 2014 12:45 pm

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
98-86-2	Acetophenone	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
62-53-3	Aniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
120-12-7	Anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
1912-24-9	Atrazine	ND		ug/L	0.526	0.526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
100-52-7	Benzaldehyde	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
92-87-5	Benzidine	ND		ug/L	10.5	21.1	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
65-85-0	Benzoic acid	ND		ug/L	26.3	52.6	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
105-60-2	Caprolactam	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
86-74-8	Carbazole	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
218-01-9	Chrysene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
132-64-9	Dibenzofuran	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH



Sample Information

Client Sample ID: MW015-D

York Sample ID: 14K0115-04

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 12:45 pm

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
117-81-7	Bis(2-ethylhexyl)phthalate	2.54		ug/L	0.526	0.526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
206-44-0	Fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
86-73-7	Fluorene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0211	0.0211	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.526	0.526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
67-72-1	Hexachloroethane	ND		ug/L	0.526	0.526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
78-59-1	Isophorone	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
95-48-7	2-Methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
91-20-3	Naphthalene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
98-95-3	Nitrobenzene	ND		ug/L	0.263	0.263	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.526	0.526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.263	0.263	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
85-01-8	Phenanthrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
108-95-2	Phenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
129-00-0	Pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:10	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH



Sample Information

Client Sample ID: MW015-D

York Sample ID: 14K0115-04

York Project (SDG) No.

14K0115

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 4, 2014 12:45 pm

Date Received

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D	11/11/2014 07:54	11/12/2014 00:49	KH
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	33.2 %			10-47						
4165-62-2	Surrogate: Phenol-d5	19.6 %			10-37						
4165-60-0	Surrogate: Nitrobenzene-d5	46.6 %			10-109						
321-60-8	Surrogate: 2-Fluorobiphenyl	35.4 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	71.4 %			10-112						
1718-51-0	Surrogate: Terphenyl-d14	62.3 %			10-137						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-39-3	Barium	0.076		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-70-2	Calcium	82.6		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7439-95-4	Magnesium	37.0		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7439-96-5	Manganese	0.034		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-09-7	Potassium	3.10		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7782-49-2	Selenium	0.022		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-23-5	Sodium	61.1		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW
7440-66-6	Zinc	0.013		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:53	MW

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

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

Client Sample ID: MW015-D

York Sample ID: 14K0115-04

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 12:45 pm

Date Received
11/04/2014

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-39-3	Barium	0.076		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-70-2	Calcium	84.1		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-50-8	Copper	0.003		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7439-95-4	Magnesium	38.0		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7439-96-5	Manganese	0.033		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-09-7	Potassium	3.16		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7782-49-2	Selenium	0.027		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-23-5	Sodium	60.5		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW
7440-66-6	Zinc	0.012		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:04	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD



Sample Information

Client Sample ID: MW016-S

York Sample ID: 14K0115-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0115

170329301

Water

November 4, 2014 2:08 pm

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
156-59-2	cis-1,2-Dichloroethylene	1.3		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS



Sample Information

Client Sample ID: MW016-S

York Sample ID: 14K0115-05

York Project (SDG) No.

14K0115

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 4, 2014 2:08 pm

Date Received

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
75-09-2	Methylene chloride	1.5	J	ug/L	1.0	2.0	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
127-18-4	Tetrachloroethylene	1.5		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
79-01-6	Trichloroethylene	0.74		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/11/2014 09:30	11/11/2014 14:23	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	110 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	94.4 %	79-122								
2037-26-5	Surrogate: Toluene-d8	94.4 %	81-117								



Sample Information

Client Sample ID: MW016-S

York Sample ID: 14K0115-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0115

170329301

Water

November 4, 2014 2:08 pm

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
98-86-2	Acetophenone	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
62-53-3	Aniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
120-12-7	Anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
1912-24-9	Atrazine	ND		ug/L	0.541	0.541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
100-52-7	Benzaldehyde	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
92-87-5	Benzidine	ND		ug/L	10.8	21.6	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
65-85-0	Benzoic acid	ND		ug/L	27.0	54.1	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
105-60-2	Caprolactam	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
86-74-8	Carbazole	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
132-64-9	Dibenzofuran	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH



Sample Information

Client Sample ID: MW016-S

York Sample ID: 14K0115-05

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 2:08 pm

Date Received
11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
117-81-7	Bis(2-ethylhexyl)phthalate	10.4		ug/L	0.541	0.541	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
206-44-0	Fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0216	0.0216	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.541	0.541	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
67-72-1	Hexachloroethane	ND		ug/L	0.541	0.541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
78-59-1	Isophorone	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
95-48-7	2-Methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
98-95-3	Nitrobenzene	ND		ug/L	0.270	0.270	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.541	0.541	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.270	0.270	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
85-01-8	Phenanthrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
108-95-2	Phenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
129-00-0	Pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 07:54	11/12/2014 01:40	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH



Sample Information

Client Sample ID: MW016-S

York Sample ID: 14K0115-05

York Project (SDG) No.

14K0115

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 4, 2014 2:08 pm

Date Received

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:01	KH
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	42.0 %			10-47						
4165-62-2	Surrogate: Phenol-d5	26.2 %			10-37						
4165-60-0	Surrogate: Nitrobenzene-d5	63.5 %			10-109						
321-60-8	Surrogate: 2-Fluorobiphenyl	69.8 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	56.6 %			10-112						
1718-51-0	Surrogate: Terphenyl-d14	134 %			10-137						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-39-3	Barium	0.198		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-70-2	Calcium	87.2		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-48-4	Cobalt	0.009		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7439-89-6	Iron	5.59		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7439-95-4	Magnesium	8.14		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7439-96-5	Manganese	5.20		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-02-0	Nickel	0.007		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-09-7	Potassium	18.3		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7782-49-2	Selenium	0.013		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-23-5	Sodium	191		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW
7440-66-6	Zinc	0.021		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 02:58	MW

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

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

Client Sample ID: MW016-S

York Sample ID: 14K0115-05

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 2:08 pm

Date Received
11/04/2014

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-39-3	Barium	0.197		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-70-2	Calcium	88.1		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-48-4	Cobalt	0.009		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7439-89-6	Iron	5.73		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7439-95-4	Magnesium	8.46		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7439-96-5	Manganese	5.20		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-02-0	Nickel	0.006		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-09-7	Potassium	18.6		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7782-49-2	Selenium	0.012		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-23-5	Sodium	198		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW
7440-66-6	Zinc	0.012		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:22	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD



Sample Information

Client Sample ID: FB01_11.04.14

York Sample ID: 14K0115-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0115

170329301

Water

November 4, 2014 4:20 pm

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
67-64-1	Acetone	1.7	Cal-E, CCV-E , J, B	ug/L	1.0	2.0	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS



Sample Information

Client Sample ID: FB01_11.04.14

York Sample ID: 14K0115-06

York Project (SDG) No.

14K0115

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 4, 2014 4:20 pm

Date Received

11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/10/2014 17:25	11/11/2014 01:29	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	99.4 %	79-122								
2037-26-5	Surrogate: Toluene-d8	102 %	81-117								



Sample Information

Client Sample ID: FB01_11.04.14

York Sample ID: 14K0115-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0115

170329301

Water

November 4, 2014 4:20 pm

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
98-86-2	Acetophenone	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
62-53-3	Aniline	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
120-12-7	Anthracene	ND		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
1912-24-9	Atrazine	ND		ug/L	0.741	0.741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
100-52-7	Benzaldehyde	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
92-87-5	Benzidine	ND		ug/L	14.8	29.6	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
65-85-0	Benzoic acid	ND		ug/L	37.0	74.1	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
100-51-6	Benzyl alcohol	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
105-60-2	Caprolactam	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
86-74-8	Carbazole	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
106-47-8	4-Chloroaniline	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
95-57-8	2-Chlorophenol	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
218-01-9	Chrysene	ND		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
132-64-9	Dibenzofuran	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
84-66-2	Diethyl phthalate	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH



Sample Information

Client Sample ID: FB01_11.04.14

York Sample ID: 14K0115-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0115

170329301

Water

November 4, 2014 4:20 pm

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
131-11-3	Dimethyl phthalate	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
117-81-7	Bis(2-ethylhexyl)phthalate	86.7		ug/L	0.741	0.741	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
206-44-0	Fluoranthene	ND		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
86-73-7	Fluorene	ND		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0296	0.0296	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.741	0.741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
67-72-1	Hexachloroethane	ND		ug/L	0.741	0.741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
78-59-1	Isophorone	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
95-48-7	2-Methylphenol	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
91-20-3	Naphthalene	ND		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
99-09-2	3-Nitroaniline	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
100-01-6	4-Nitroaniline	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
88-74-4	2-Nitroaniline	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
98-95-3	Nitrobenzene	ND		ug/L	0.370	0.370	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
100-02-7	4-Nitrophenol	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
88-75-5	2-Nitrophenol	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.741	0.741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.370	0.370	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
85-01-8	Phenanthrene	ND		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
108-95-2	Phenol	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
129-00-0	Pyrene	0.133		ug/L	0.0741	0.0741	1	EPA 8270D	11/11/2014 07:54	11/12/2014 02:11	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH



Sample Information

Client Sample ID: FB01_11.04.14

York Sample ID: 14K0115-06

York Project (SDG) No.

14K0115

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 4, 2014 4:20 pm

Date Received

11/04/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.70	7.41	1	EPA 8270D	11/11/2014 07:54	11/11/2014 20:34	KH
Surrogate Recoveries		Result		Acceptance Range							
367-12-4	Surrogate: 2-Fluorophenol	73.6 %	S-08	10-47							
4165-62-2	Surrogate: Phenol-d5	45.5 %	S-08	10-37							
4165-60-0	Surrogate: Nitrobenzene-d5	81.5 %		10-109							
321-60-8	Surrogate: 2-Fluorobiphenyl	81.5 %		10-97							
118-79-6	Surrogate: 2,4,6-Tribromophenol	72.9 %		10-112							
1718-51-0	Surrogate: Terphenyl-d14	93.4 %		10-137							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-39-3	Barium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-70-2	Calcium	ND		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7439-95-4	Magnesium	ND		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7439-96-5	Manganese	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-09-7	Potassium	ND		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-23-5	Sodium	ND		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW
7440-66-6	Zinc	0.012		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:03	MW

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

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

Client Sample ID: FB01_11.04.14

York Sample ID: 14K0115-06

York Project (SDG) No.

14K0115

Client Project ID

170329301

Matrix

Water

Collection Date/Time

November 4, 2014 4:20 pm

Date Received

11/04/2014

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-39-3	Barium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-70-2	Calcium	ND		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7439-95-4	Magnesium	ND		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7439-96-5	Manganese	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-09-7	Potassium	ND		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-23-5	Sodium	ND		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW
7440-66-6	Zinc	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:27	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/10/2014 10:39	11/11/2014 07:16	ALD



Sample Information

Client Sample ID: TB02

York Sample ID: 14K0115-07

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 12:00 am

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
67-64-1	Acetone	2.0	Cal-E, CCV-E , B	ug/L	1.0	2.0	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS



Sample Information

Client Sample ID: TB02

York Sample ID: 14K0115-07

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 3, 2014 12:00 am

Date Received
11/04/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/10/2014 17:25	11/11/2014 02:02	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	99.2 %	79-122								
2037-26-5	Surrogate: Toluene-d8	98.9 %	81-117								



Sample Information

Client Sample ID: SV004-11.04.14

York Sample ID: 14K0115-08

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Soil Vapor

Collection Date/Time
November 4, 2014 10:45 am

Date Received
11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m ³	0.065	0.065	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	0.36	0.36	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
79-01-6	Trichloroethylene	240		ug/m ³	0.14	0.14	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.46	0.46	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.40	0.40	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
108-88-3	Toluene	3.8		ug/m ³	0.38	0.38	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
109-99-9	* Tetrahydrofuran	1.2		ug/m ³	0.30	0.30	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
127-18-4	Tetrachloroethylene	130		ug/m ³	0.17	0.17	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
100-42-5	Styrene	17		ug/m ³	0.43	0.43	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
115-07-1	* Propylene	ND		ug/m ³	0.17	0.17	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
622-96-8	* p-Ethyltoluene	22		ug/m ³	0.50	0.50	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
179601-23-1	p- & m- Xylenes	23		ug/m ³	0.88	0.88	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
95-47-6	o-Xylene	12		ug/m ³	0.44	0.44	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
110-54-3	n-Hexane	0.36		ug/m ³	0.36	0.36	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
142-82-5	n-Heptane	0.54		ug/m ³	0.42	0.42	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
75-09-2	Methylene chloride	0.70		ug/m ³	0.70	0.70	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.36	0.36	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.42	0.42	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
67-63-0	Isopropanol	0.80		ug/m ³	0.50	0.50	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.1	1.1	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
100-41-4	Ethyl Benzene	4.4		ug/m ³	0.44	0.44	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	0.73	0.73	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
110-82-7	Cyclohexane	ND		ug/m ³	0.35	0.35	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.46	0.46	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
156-59-2	cis-1,2-Dichloroethylene	3.9		ug/m ³	0.40	0.40	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
74-87-3	Chloromethane	ND		ug/m ³	0.21	0.21	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
67-66-3	Chloroform	9.9		ug/m ³	0.50	0.50	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
75-00-3	Chloroethane	ND		ug/m ³	0.27	0.27	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
56-23-5	Carbon tetrachloride	0.32		ug/m ³	0.16	0.16	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
75-15-0	Carbon disulfide	15		ug/m ³	0.32	0.32	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
74-83-9	Bromomethane	ND		ug/m ³	0.39	0.39	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
75-25-2	Bromoform	ND		ug/m ³	1.0	1.0	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	0.63	0.63	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	0.52	0.52	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
71-43-2	Benzene	0.49		ug/m ³	0.32	0.32	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
67-64-1	Acetone	10		ug/m ³	0.24	0.24	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	0.83	0.83	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
78-93-3	2-Butanone	1.1		ug/m ³	0.30	0.30	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD



Sample Information

Client Sample ID: SV004-11.04.14

York Sample ID: 14K0115-08

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Soil Vapor

Collection Date/Time
November 4, 2014 10:45 am

Date Received
11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/m ³	0.37	0.37	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.61	0.61	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.61	0.61	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
106-99-0	1,3-Butadiene	ND		ug/m ³	0.44	0.44	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
108-67-8	1,3,5-Trimethylbenzene	8.2		ug/m ³	0.50	0.50	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.71	0.71	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.47	0.47	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.41	0.41	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.61	0.61	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
95-63-6	1,2,4-Trimethylbenzene	31		ug/m ³	0.50	0.50	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.75	0.75	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
75-35-4	1,1-Dichloroethylene	3.3		ug/m ³	0.40	0.40	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
75-34-3	1,1-Dichloroethane	5.1		ug/m ³	0.41	0.41	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	8.0		ug/m ³	0.57	0.57	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.55	0.55	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.78	0.78	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.70	0.70	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
71-55-6	1,1,1-Trichloroethane	23		ug/m ³	0.55	0.55	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
75-71-8	Dichlorodifluoromethane	2.5		ug/m ³	0.50	0.50	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.78	0.78	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	0.81	0.81	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.42	0.42	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	0.47	0.47	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 08:15	ALD
Surrogate Recoveries		Result	Acceptance Range								
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	101 %	72-118								

Sample Information

Client Sample ID: SV005-11.04.14

York Sample ID: 14K0115-09

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Soil Vapor

Collection Date/Time
November 4, 2014 11:09 am

Date Received
11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m ³	1.2	1.2	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	6.6	6.6	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD



Sample Information

Client Sample ID: SV005-11.04.14

York Sample ID: 14K0115-09

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Soil Vapor

Collection Date/Time
November 4, 2014 11:09 am

Date Received
11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
					LOD/MDL	LOQ					
79-01-6	Trichloroethylene	2900		ug/m ³	2.5	2.5	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	8.5	8.5	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	7.4	7.4	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
108-88-3	Toluene	ND		ug/m ³	7.0	7.0	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m ³	5.5	5.5	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
127-18-4	Tetrachloroethylene	500		ug/m ³	3.2	3.2	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
100-42-5	Styrene	ND		ug/m ³	8.0	8.0	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
115-07-1	* Propylene	ND		ug/m ³	3.2	3.2	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
622-96-8	* p-Ethyltoluene	17		ug/m ³	9.2	9.2	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
179601-23-1	p- & m- Xylenes	85		ug/m ³	16	16	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
95-47-6	o-Xylene	53		ug/m ³	8.1	8.1	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
110-54-3	n-Hexane	ND		ug/m ³	6.6	6.6	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
142-82-5	n-Heptane	ND		ug/m ³	7.7	7.7	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
75-09-2	Methylene chloride	ND		ug/m ³	13	13	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	6.7	6.7	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	7.6	7.6	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
67-63-0	Isopropanol	ND		ug/m ³	9.2	9.2	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	20	20	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
100-41-4	Ethyl Benzene	16		ug/m ³	8.1	8.1	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	13	13	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
110-82-7	Cyclohexane	ND		ug/m ³	6.4	6.4	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	8.5	8.5	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
156-59-2	cis-1,2-Dichloroethylene	61		ug/m ³	7.4	7.4	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
74-87-3	Chloromethane	ND		ug/m ³	3.9	3.9	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
67-66-3	Chloroform	ND		ug/m ³	9.1	9.1	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
75-00-3	Chloroethane	ND		ug/m ³	4.9	4.9	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
56-23-5	Carbon tetrachloride	ND		ug/m ³	2.9	2.9	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
75-15-0	Carbon disulfide	17		ug/m ³	5.8	5.8	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
74-83-9	Bromomethane	ND		ug/m ³	7.2	7.2	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
75-25-2	Bromoform	ND		ug/m ³	19	19	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	12	12	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	9.7	9.7	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
71-43-2	Benzene	ND		ug/m ³	6.0	6.0	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
67-64-1	Acetone	14		ug/m ³	4.4	4.4	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	15	15	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
78-93-3	2-Butanone	ND		ug/m ³	5.5	5.5	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	6.7	6.7	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	11	11	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	11	11	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD



Sample Information

Client Sample ID: SV005-11.04.14

York Sample ID: 14K0115-09

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Soil Vapor

Collection Date/Time
November 4, 2014 11:09 am

Date Received
11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-99-0	1,3-Butadiene	ND		ug/m ³	8.1	8.1	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
108-67-8	1,3,5-Trimethylbenzene	9.2		ug/m ³	9.2	9.2	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	13	13	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	8.6	8.6	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	7.6	7.6	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	11	11	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
95-63-6	1,2,4-Trimethylbenzene	22		ug/m ³	9.2	9.2	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	14	14	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
75-35-4	1,1-Dichloroethylene	33		ug/m ³	7.4	7.4	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
75-34-3	1,1-Dichloroethane	19		ug/m ³	7.6	7.6	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	47		ug/m ³	10	10	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	10	10	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	14	14	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	13	13	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
71-55-6	1,1,1-Trichloroethane	54		ug/m ³	10	10	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	9.2	9.2	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	14	14	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	15	15	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
80-62-6	Methyl Methacrylate	ND		ug/m ³	7.6	7.6	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	8.6	8.6	18.67	EPA TO-15	11/09/2014 09:30	11/10/2014 02:01	ALD
Surrogate Recoveries		Result	Acceptance Range								
460-00-4	Surrogate: p-Bromofluorobenzene	101 %	72-118								

Sample Information

Client Sample ID: SV006-11.04.14

York Sample ID: 14K0115-10

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Soil Vapor

Collection Date/Time
November 4, 2014 11:42 am

Date Received
11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m ³	1.1	1.1	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	6.2	6.2	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
79-01-6	Trichloroethylene	45		ug/m ³	2.4	2.4	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	8.0	8.0	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	7.0	7.0	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD



Sample Information

Client Sample ID: SV006-11.04.14

York Sample ID: 14K0115-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0115

170329301

Soil Vapor

November 4, 2014 11:42 am

11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	8.7		ug/m ³	6.7	6.7	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m ³	5.2	5.2	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
127-18-4	Tetrachloroethylene	110		ug/m ³	3.0	3.0	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
100-42-5	Styrene	ND		ug/m ³	7.5	7.5	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
115-07-1	* Propylene	ND		ug/m ³	3.0	3.0	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
622-96-8	* p-Ethyltoluene	73		ug/m ³	8.7	8.7	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
179601-23-1	p- & m- Xylenes	140		ug/m ³	15	15	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
95-47-6	o-Xylene	140		ug/m ³	7.7	7.7	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
110-54-3	n-Hexane	ND		ug/m ³	6.2	6.2	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
142-82-5	n-Heptane	8.7		ug/m ³	7.2	7.2	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
75-09-2	Methylene chloride	ND		ug/m ³	12	12	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	6.4	6.4	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	7.2	7.2	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
67-63-0	Isopropanol	ND		ug/m ³	8.7	8.7	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	19	19	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
100-41-4	Ethyl Benzene	8.4		ug/m ³	7.7	7.7	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	13	13	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
110-82-7	Cyclohexane	ND		ug/m ³	6.1	6.1	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	8.0	8.0	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	7.0	7.0	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
74-87-3	Chloromethane	ND		ug/m ³	3.7	3.7	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
67-66-3	Chloroform	ND		ug/m ³	8.6	8.6	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
75-00-3	Chloroethane	ND		ug/m ³	4.7	4.7	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
56-23-5	Carbon tetrachloride	ND		ug/m ³	2.8	2.8	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
75-15-0	Carbon disulfide	6.1		ug/m ³	5.5	5.5	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
74-83-9	Bromomethane	ND		ug/m ³	6.9	6.9	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
75-25-2	Bromoform	ND		ug/m ³	18	18	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	11	11	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	9.2	9.2	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
71-43-2	Benzene	ND		ug/m ³	5.6	5.6	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
67-64-1	Acetone	57		ug/m ³	4.2	4.2	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	14	14	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
78-93-3	2-Butanone	5.2		ug/m ³	5.2	5.2	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	6.4	6.4	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	11	11	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	11	11	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
106-99-0	1,3-Butadiene	ND		ug/m ³	7.7	7.7	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
108-67-8	1,3,5-Trimethylbenzene	370		ug/m ³	8.7	8.7	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	12	12	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD



Sample Information

Client Sample ID: SV006-11.04.14

York Sample ID: 14K0115-10

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Soil Vapor

Collection Date/Time
November 4, 2014 11:42 am

Date Received
11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	13		ug/m ³	8.2	8.2	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	7.2	7.2	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	11	11	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
95-63-6	1,2,4-Trimethylbenzene	220		ug/m ³	8.7	8.7	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	13	13	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	7.0	7.0	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
75-34-3	1,1-Dichloroethane	13		ug/m ³	7.2	7.2	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	9.9	9.9	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	9.6	9.6	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	14	14	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	12	12	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
71-55-6	1,1,1-Trichloroethane	74		ug/m ³	9.6	9.6	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	8.7	8.7	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	14	14	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	14	14	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
80-62-6	Methyl Methacrylate	ND		ug/m ³	7.2	7.2	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	8.1	8.1	17.68	EPA TO-15	11/09/2014 09:30	11/10/2014 02:50	ALD
Surrogate Recoveries		Result	Acceptance Range								
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	101 %	72-118								

Sample Information

Client Sample ID: SV007-11.04.14

York Sample ID: 14K0115-11

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Soil Vapor

Collection Date/Time
November 4, 2014 11:19 am

Date Received
11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m ³	0.065	0.065	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	0.36	0.36	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
79-01-6	Trichloroethylene	11		ug/m ³	0.14	0.14	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.46	0.46	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.40	0.40	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
108-88-3	Toluene	2.9		ug/m ³	0.38	0.38	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.30	0.30	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
127-18-4	Tetrachloroethylene	210		ug/m ³	0.17	0.17	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD



Sample Information

Client Sample ID: SV007-11.04.14

York Sample ID: 14K0115-11

York Project (SDG) No.

14K0115

Client Project ID

170329301

Matrix

Soil Vapor

Collection Date/Time

November 4, 2014 11:19 am

Date Received

11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
					LOD/MDL	LOQ					
100-42-5	Styrene	5.1		ug/m ³	0.43	0.43	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
115-07-1	* Propylene	ND		ug/m ³	0.17	0.17	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
622-96-8	* p-Ethyltoluene	11		ug/m ³	0.50	0.50	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
179601-23-1	p- & m- Xylenes	10		ug/m ³	0.88	0.88	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
95-47-6	o-Xylene	5.6		ug/m ³	0.44	0.44	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
110-54-3	n-Hexane	0.93		ug/m ³	0.36	0.36	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
142-82-5	n-Heptane	0.58		ug/m ³	0.42	0.42	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
75-09-2	Methylene chloride	ND		ug/m ³	0.70	0.70	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	0.95		ug/m ³	0.36	0.36	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.42	0.42	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
67-63-0	Isopropanol	1.1		ug/m ³	0.50	0.50	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.1	1.1	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
100-41-4	Ethyl Benzene	2.1		ug/m ³	0.44	0.44	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
141-78-6	* Ethyl acetate	1.6		ug/m ³	0.73	0.73	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
110-82-7	Cyclohexane	0.80		ug/m ³	0.35	0.35	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.46	0.46	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.40	0.40	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
74-87-3	Chloromethane	0.61		ug/m ³	0.21	0.21	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
67-66-3	Chloroform	3.8		ug/m ³	0.50	0.50	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
75-00-3	Chloroethane	ND		ug/m ³	0.27	0.27	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.16	0.16	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
75-15-0	Carbon disulfide	17		ug/m ³	0.32	0.32	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
74-83-9	Bromomethane	ND		ug/m ³	0.39	0.39	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
75-25-2	Bromoform	ND		ug/m ³	1.0	1.0	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	0.63	0.63	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	0.52	0.52	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
71-43-2	Benzene	0.36		ug/m ³	0.32	0.32	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
67-64-1	Acetone	21		ug/m ³	0.24	0.24	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	0.83	0.83	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
78-93-3	2-Butanone	2.0		ug/m ³	0.30	0.30	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	0.37	0.37	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.61	0.61	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.61	0.61	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
106-99-0	1,3-Butadiene	ND		ug/m ³	0.44	0.44	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
108-67-8	1,3,5-Trimethylbenzene	5.0		ug/m ³	0.50	0.50	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.71	0.71	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.47	0.47	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.41	0.41	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.61	0.61	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD



Sample Information

Client Sample ID: SV007-11.04.14

York Sample ID: 14K0115-11

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Soil Vapor

Collection Date/Time
November 4, 2014 11:19 am

Date Received
11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	17		ug/m ³	0.50	0.50	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.75	0.75	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.40	0.40	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
75-34-3	1,1-Dichloroethane	1.4		ug/m ³	0.41	0.41	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	3.6		ug/m ³	0.57	0.57	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.55	0.55	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.85		ug/m ³	0.78	0.78	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.70	0.70	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
71-55-6	1,1,1-Trichloroethane	77		ug/m ³	0.55	0.55	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
75-71-8	Dichlorodifluoromethane	2.0		ug/m ³	0.50	0.50	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.78	0.78	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	0.81	0.81	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.42	0.42	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	0.47	0.47	1.014	EPA TO-15	11/09/2014 09:30	11/10/2014 09:18	ALD
Surrogate Recoveries		Result	Acceptance Range								
460-00-4	Surrogate: p-Bromofluorobenzene	101 %	72-118								

Sample Information

Client Sample ID: SV008-11.04.14

York Sample ID: 14K0115-12

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Soil Vapor

Collection Date/Time
November 4, 2014 4:24 pm

Date Received
11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m ³	1.2	1.2	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	6.3	6.3	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
79-01-6	Trichloroethylene	790		ug/m ³	2.4	2.4	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	8.2	8.2	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	7.1	7.1	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
108-88-3	Toluene	6.8		ug/m ³	6.8	6.8	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m ³	5.3	5.3	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
127-18-4	Tetrachloroethylene	390		ug/m ³	3.1	3.1	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
100-42-5	Styrene	ND		ug/m ³	7.7	7.7	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
115-07-1	* Propylene	ND		ug/m ³	3.1	3.1	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
622-96-8	* p-Ethyltoluene	19		ug/m ³	8.8	8.8	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD



Sample Information

Client Sample ID: SV008-11.04.14

York Sample ID: 14K0115-12

York Project (SDG) No.

14K0115

Client Project ID

170329301

Matrix

Soil Vapor

Collection Date/Time

November 4, 2014 4:24 pm

Date Received

11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	45		ug/m ³	16	16	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
95-47-6	o-Xylene	36		ug/m ³	7.8	7.8	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
110-54-3	n-Hexane	ND		ug/m ³	6.3	6.3	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
142-82-5	n-Heptane	ND		ug/m ³	7.4	7.4	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
75-09-2	Methylene chloride	ND		ug/m ³	13	13	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	6.5	6.5	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	7.4	7.4	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
67-63-0	Isopropanol	ND		ug/m ³	8.8	8.8	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	19	19	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
100-41-4	Ethyl Benzene	ND		ug/m ³	7.8	7.8	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	13	13	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
110-82-7	Cyclohexane	ND		ug/m ³	6.2	6.2	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	8.2	8.2	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	7.1	7.1	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
74-87-3	Chloromethane	ND		ug/m ³	3.7	3.7	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
67-66-3	Chloroform	11		ug/m ³	8.8	8.8	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
75-00-3	Chloroethane	ND		ug/m ³	4.7	4.7	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
56-23-5	Carbon tetrachloride	ND		ug/m ³	2.8	2.8	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
75-15-0	Carbon disulfide	34		ug/m ³	5.6	5.6	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
74-83-9	Bromomethane	ND		ug/m ³	7.0	7.0	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
75-25-2	Bromoform	ND		ug/m ³	19	19	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	11	11	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	9.3	9.3	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
71-43-2	Benzene	ND		ug/m ³	5.8	5.8	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
67-64-1	Acetone	6.8		ug/m ³	4.3	4.3	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	15	15	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
78-93-3	2-Butanone	ND		ug/m ³	5.3	5.3	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	6.5	6.5	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	11	11	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	11	11	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
106-99-0	1,3-Butadiene	ND		ug/m ³	7.8	7.8	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
108-67-8	1,3,5-Trimethylbenzene	38		ug/m ³	8.8	8.8	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	13	13	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	8.3	8.3	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	7.3	7.3	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	11	11	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
95-63-6	1,2,4-Trimethylbenzene	33		ug/m ³	8.8	8.8	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	13	13	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	7.1	7.1	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD



Sample Information

Client Sample ID: SV008-11.04.14

York Sample ID: 14K0115-12

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Soil Vapor

Collection Date/Time
November 4, 2014 4:24 pm

Date Received
11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/m ³	7.3	7.3	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	10	10	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	9.8	9.8	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	14	14	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	12	12	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
71-55-6	1,1,1-Trichloroethane	140		ug/m ³	9.8	9.8	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	8.9	8.9	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	14	14	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	14	14	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
80-62-6	Methyl Methacrylate	ND		ug/m ³	7.4	7.4	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	8.3	8.3	18	EPA TO-15	11/09/2014 09:30	11/10/2014 04:29	ALD
Surrogate Recoveries		Result	Acceptance Range								
460-00-4	Surrogate: p-Bromofluorobenzene	101 %	72-118								

Sample Information

Client Sample ID: OA001-11.04.14

York Sample ID: 14K0115-13

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Soil Vapor

Collection Date/Time
November 4, 2014 1:55 pm

Date Received
11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m ³	0.064	0.064	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	0.35	0.35	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
79-01-6	Trichloroethylene	ND		ug/m ³	0.13	0.13	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.45	0.45	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.40	0.40	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
108-88-3	Toluene	1.8		ug/m ³	0.38	0.38	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.29	0.29	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
127-18-4	Tetrachloroethylene	1.2		ug/m ³	0.17	0.17	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
100-42-5	Styrene	ND		ug/m ³	0.43	0.43	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
115-07-1	* Propylene	ND		ug/m ³	0.17	0.17	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
622-96-8	* p-Ethyltoluene	ND		ug/m ³	0.49	0.49	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
179601-23-1	p- & m- Xylenes	ND		ug/m ³	0.87	0.87	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
95-47-6	o-Xylene	ND		ug/m ³	0.43	0.43	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
110-54-3	n-Hexane	0.92		ug/m ³	0.35	0.35	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD



Sample Information

Client Sample ID: OA001-11.04.14

York Sample ID: 14K0115-13

York Project (SDG) No.

14K0115

Client Project ID

170329301

Matrix

Soil Vapor

Collection Date/Time

November 4, 2014 1:55 pm

Date Received

11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
142-82-5	n-Heptane	0.86		ug/m ³	0.41	0.41	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
75-09-2	Methylene chloride	1.1		ug/m ³	0.69	0.69	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.36	0.36	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.41	0.41	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
67-63-0	Isopropanol	2.0		ug/m ³	0.49	0.49	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.1	1.1	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
100-41-4	Ethyl Benzene	ND		ug/m ³	0.43	0.43	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	0.72	0.72	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
110-82-7	Cyclohexane	ND		ug/m ³	0.34	0.34	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.45	0.45	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.40	0.40	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
74-87-3	Chloromethane	1.6		ug/m ³	0.21	0.21	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
67-66-3	Chloroform	0.49		ug/m ³	0.49	0.49	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
75-00-3	Chloroethane	ND		ug/m ³	0.26	0.26	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
56-23-5	Carbon tetrachloride	0.44		ug/m ³	0.16	0.16	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
75-15-0	Carbon disulfide	ND		ug/m ³	0.31	0.31	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
74-83-9	Bromomethane	ND		ug/m ³	0.39	0.39	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
75-25-2	Bromoform	ND		ug/m ³	1.0	1.0	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	0.62	0.62	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	0.52	0.52	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
71-43-2	Benzene	0.80		ug/m ³	0.32	0.32	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
67-64-1	Acetone	11		ug/m ³	0.24	0.24	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	0.82	0.82	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
78-93-3	2-Butanone	1.7		ug/m ³	0.29	0.29	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	0.36	0.36	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.60	0.60	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.60	0.60	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
106-99-0	1,3-Butadiene	ND		ug/m ³	0.43	0.43	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.49	0.49	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.70	0.70	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.46	0.46	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.40	0.40	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.60	0.60	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m ³	0.49	0.49	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.74	0.74	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.40	0.40	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.40	0.40	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	1.5		ug/m ³	0.56	0.56	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.55	0.55	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD



Sample Information

Client Sample ID: OA001-11.04.14

York Sample ID: 14K0115-13

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Soil Vapor

Collection Date/Time
November 4, 2014 1:55 pm

Date Received
11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.77	0.77	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.69	0.69	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.55	0.55	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
75-71-8	Dichlorodifluoromethane	2.0		ug/m ³	0.49	0.49	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.77	0.77	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	0.80	0.80	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.41	0.41	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	0.46	0.46	1	EPA TO-15	11/09/2014 09:30	11/10/2014 10:21	ALD
Surrogate Recoveries		Result	Acceptance Range								
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	100 %	72-118								

Sample Information

Client Sample ID: DUP01-11.04.14

York Sample ID: 14K0115-14

York Project (SDG) No.
14K0115

Client Project ID
170329301

Matrix
Soil Vapor

Collection Date/Time
November 4, 2014 12:00 am

Date Received
11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m ³	0.073	0.073	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	0.40	0.40	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
79-01-6	Trichloroethylene	12		ug/m ³	0.15	0.15	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.52	0.52	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.45	0.45	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
108-88-3	Toluene	2.2		ug/m ³	0.43	0.43	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.34	0.34	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
127-18-4	Tetrachloroethylene	250		ug/m ³	0.19	0.19	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
100-42-5	Styrene	3.3		ug/m ³	0.49	0.49	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
115-07-1	* Propylene	ND		ug/m ³	0.20	0.20	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
622-96-8	* p-Ethyltoluene	9.2		ug/m ³	0.56	0.56	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
179601-23-1	p- & m- Xylenes	7.2		ug/m ³	0.99	0.99	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
95-47-6	o-Xylene	4.0		ug/m ³	0.50	0.50	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
110-54-3	n-Hexane	1.9		ug/m ³	0.40	0.40	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
142-82-5	n-Heptane	0.66		ug/m ³	0.47	0.47	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
75-09-2	Methylene chloride	ND		ug/m ³	0.79	0.79	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	1.0		ug/m ³	0.41	0.41	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD



Sample Information

Client Sample ID: DUP01-11.04.14

York Sample ID: 14K0115-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0115

170329301

Soil Vapor

November 4, 2014 12:00 am

11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.47	0.47	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
67-63-0	Isopropanol	2.4		ug/m ³	0.56	0.56	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.2	1.2	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
100-41-4	Ethyl Benzene	1.4		ug/m ³	0.50	0.50	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
141-78-6	* Ethyl acetate	1.0		ug/m ³	0.82	0.82	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
110-82-7	Cyclohexane	0.79		ug/m ³	0.39	0.39	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.52	0.52	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.45	0.45	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
74-87-3	Chloromethane	ND		ug/m ³	0.24	0.24	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
67-66-3	Chloroform	4.0		ug/m ³	0.56	0.56	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
75-00-3	Chloroethane	ND		ug/m ³	0.30	0.30	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.18	0.18	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
75-15-0	Carbon disulfide	17		ug/m ³	0.36	0.36	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
74-83-9	Bromomethane	ND		ug/m ³	0.44	0.44	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
75-25-2	Bromoform	ND		ug/m ³	1.2	1.2	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	0.71	0.71	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	0.59	0.59	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
71-43-2	Benzene	0.55		ug/m ³	0.37	0.37	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
67-64-1	Acetone	19		ug/m ³	0.27	0.27	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	0.94	0.94	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
78-93-3	2-Butanone	1.6		ug/m ³	0.34	0.34	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	0.41	0.41	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
106-46-7	1,4-Dichlorobenzene	2.1		ug/m ³	0.69	0.69	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.69	0.69	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
106-99-0	1,3-Butadiene	ND		ug/m ³	0.50	0.50	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
108-67-8	1,3,5-Trimethylbenzene	3.9		ug/m ³	0.56	0.56	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.80	0.80	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.53	0.53	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.46	0.46	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.69	0.69	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
95-63-6	1,2,4-Trimethylbenzene	15		ug/m ³	0.56	0.56	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.85	0.85	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.45	0.45	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
75-34-3	1,1-Dichloroethane	1.5		ug/m ³	0.46	0.46	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	3.9		ug/m ³	0.64	0.64	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.62	0.62	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.96		ug/m ³	0.88	0.88	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.79	0.79	1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD



Sample Information

Client Sample ID: DUP01-11.04.14

York Sample ID: 14K0115-14

York Project (SDG) No.

14K0115

Client Project ID

170329301

Matrix

Soil Vapor

Collection Date/Time

November 4, 2014 12:00 am

Date Received

11/04/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
71-55-6	1,1,1-Trichloroethane	82		ug/m ³	0.62	0.62		1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
75-71-8	Dichlorodifluoromethane	2.3		ug/m ³	0.57	0.57		1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.88	0.88		1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	0.92	0.92		1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.47	0.47		1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
108-90-7	Chlorobenzene	0.84		ug/m ³	0.53	0.53		1.144	EPA TO-15	11/09/2014 09:30	11/10/2014 11:24	ALD
	Surrogate Recoveries	Result			Acceptance Range							
460-00-4	Surrogate: p-Bromofluorobenzene	99.9 %			72-118							



Volatile Analysis Sample Containers

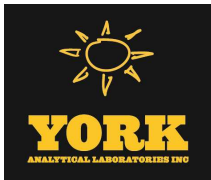
Lab ID	Client Sample ID	Volatile Sample Container
14K0115-01	MW014-M	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0115-02	MW014-D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0115-03	MW015-M	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0115-04	MW015-D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0115-05	MW016-S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0115-06	FB01_11.04.14	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0115-07	TB02	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

S-08	The recovery of this surrogate was outside of QC limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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/LOD) or in the case of a TIC, the result is an estimated concentration.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
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).
Cal-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20% AND correlation coefficient <0.990 for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

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



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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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



YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRAITFORD, CT 06615
(203) 325-1371
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YORK
ANALYTICAL LABORATORIES INC.

Field Chain-of-Custody Record

Page 1 of 2

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

York Project No. 14K0115

YOUR INFORMATION		Report To:		Invoice To:		YOUR PROJECT ID		Turn-Around Time		Report Type	
Company: <u>Langan Engineering</u>		Company: <u>SAHE</u>		Company: <u>SAHE</u>		170329301		RUSH - Same Day ☐		Summary Report ☐	
Address: <u>360 W. 31st St.</u>		Address: <u>SAHE</u>		Address: <u>SAHE</u>				RUSH - Next Day ☐		Summary w/ QA Summary ☐	
Phone No. <u>212-479-5559</u>		Phone No. <u>212-479-5559</u>		Phone No. <u>212-479-5559</u>				RUSH - Two Day ☐		CT RCP Package ☐	
Attention: <u>Gerry Nichols</u>		Attention: <u>Sara Donatich</u>		Attention: <u>Sara Donatich</u>				RUSH - Three Day ☐		CTRCP DQA/DUE Plg ☐	
E-Mail Address: <u>g.nichols@langan.com</u>		E-Mail Address: <u>g.nichols@langan.com</u>		E-Mail Address: <u>g.nichols@langan.com</u>				RUSH - Four Day ☐		NY ASP A Package ☐	
Contact Person: <u>Sara Donatich</u>		Contact Person: <u>Sara Donatich</u>		Contact Person: <u>Sara Donatich</u>				Standard (5-7 Days) ☒		NY ASP B Package ☐	
E-Mail Address: <u>s.donatich@langan.com</u>		E-Mail Address: <u>s.donatich@langan.com</u>		E-Mail Address: <u>s.donatich@langan.com</u>						NJDEP Red. Deliv. ☐	
E-Mail Address: <u>s.donatich@langan.com</u>		E-Mail Address: <u>s.donatich@langan.com</u>		E-Mail Address: <u>s.donatich@langan.com</u>						Electronic Data Deliverables (EDD) ☐	
Simple Excel ☒		Simple Excel ☒		Simple Excel ☒						Simple Excel ☒	
NY/DEC EQuIS ☐		NY/DEC EQuIS ☐		NY/DEC EQuIS ☐						NY/DEC EQuIS ☐	
EQUIS (std) ☒		EQUIS (std) ☒		EQUIS (std) ☒						EQUIS (std) ☒	
NJDEP SRP HazSite EDD ☐		NJDEP SRP HazSite EDD ☐		NJDEP SRP HazSite EDD ☐						NJDEP SRP HazSite EDD ☐	
GIS/KEY (std) ☐		GIS/KEY (std) ☐		GIS/KEY (std) ☐						GIS/KEY (std) ☐	
Other ☐		Other ☐		Other ☐						Other ☐	
York Regulatory Comparison ☐		York Regulatory Comparison ☐		York Regulatory Comparison ☐						York Regulatory Comparison ☐	
Excel Spreadsheet ☐		Excel Spreadsheet ☐		Excel Spreadsheet ☐						Excel Spreadsheet ☐	
Compare to the following Regs. (please fill in):		Compare to the following Regs. (please fill in):		Compare to the following Regs. (please fill in):						Compare to the following Regs. (please fill in):	

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW014-M	11/4/14 @ 1010	GW	TCL SVOCs, TCL VOCs, TAL Metals (Total & Dissolved)	2 Amber, 3 vials
MW014-D	11/4/14 @ 1200	GW	"	"
MW015-M	11/4/14 @ 0948	GW	"	"
MW015-D	11/4/14 @ 1245	GW	"	"
MW016-S	11/4/14 @ 1408	GW	"	"
FB01-11.09.14	11/4/14 @ 1620	GW	"	"
TB02			"	"
SV004-11.04.14	11/4/14 @ 1045	Air-SV	TCL VOCs	3 VOA's
NV005-11.04.14	11/4/14 @ 1109	Air-SV	TO-15 for VOCs	1 Summa canister
VO06-11.04.14	11/4/14 @ 1142	Air-SV	"	"

Comments	4°C	Frozen	HCl	MeOH	HNO ₃	H ₂ SO ₄	NaOH	Temperature on Receipt
								4.9 °C

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
<u>[Signature]</u>	11/4/14 @ 1700	<u>[Signature]</u>	11/4/14 17:00

Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
<u>[Signature]</u>	11/4/14 @ 1700	<u>[Signature]</u>	11/4/14 1915



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

Field Chain-of-Custody Record

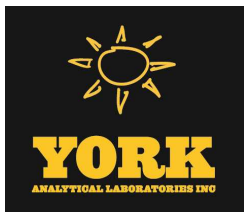
Page 2 of 2

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

York Project No. 14K0115

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type																													
Company: <u>Largan Engineering</u>	Company: <u>SAHE</u>	Company: <u>SAHE</u>	Company: <u>SAHE</u>	Purchase Order No. <u>170329301</u>		RUSH - Same Day ☐		RUSH - Next Day ☐		Summary Report <u>SD</u>																													
Address: <u>360 W. 31st St.</u>	Address: <u>SAHE</u>	Address: <u>SAHE</u>	Address: <u>SAHE</u>	Phone No. <u>212-471-5559</u>		RUSH - Two Day ☐		RUSH - Three Day ☐		Summary w/ QA Summary ☐																													
Phone No. <u>212-471-5559</u>	Phone No. <u>212-471-5559</u>	Phone No. <u>212-471-5559</u>	Phone No. <u>212-471-5559</u>	Attention: <u>Gemy Nicholls</u>		RUSH - Four Day ☐		RUSH - Five Day ☐		CT RCP Package ☐																													
Contact Person: <u>Sara Dnatich</u>	Contact Person: <u>Sara Dnatich</u>	Contact Person: <u>Sara Dnatich</u>	Contact Person: <u>Sara Dnatich</u>	E-Mail Address: <u>sdnatich@largan.com</u>		Standard (5-7 Days) ☒		Standard (5-7 Days) ☒		CTRCP DOA/DUE Pkg ☐																													
E-Mail Address: <u>sdnatich@largan.com</u>	E-Mail Address: <u>sdnatich@largan.com</u>	E-Mail Address: <u>sdnatich@largan.com</u>	E-Mail Address: <u>sdnatich@largan.com</u>	E-Mail Address: <u>sdnatich@largan.com</u>		Samples from: CT ☒ NY ☒ NJ ☒		Samples from: CT ☒ NY ☒ NJ ☒		NY ASP A Package ☐																													
Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until all questions by York are resolved.				Volatiles				Misc. Org.				Full Lists				Misc.																							
Matrix Codes				S - soil				RCRA8				TPH GRO				PH Poll.				Conductivity																			
Other - specify (oil, etc.)				WW - wastewater				STARS list				BN Only				BN Only				TAL				TAL Organic				Reactivity											
GW - groundwater				DW - drinking water				MTBE				TCL list				TCL list				TCL list				TCL list				TCL list				TCL list				TCL list			
Air-A - ambient air				Air-SV - soil vapor				TCL list				TCL list				TCL list				TCL list				TCL list				TCL list				TCL list				TCL list			
Air-SV - soil vapor				Air-SV - soil vapor				TCL list				TCL list				TCL list				TCL list				TCL list				TCL list				TCL list				TCL list			

Sample Identification		Date/Time Sampled		Sample Matrix		Choose Analyses Needed from the Menu Above and Enter Below										Container Description(s)			
SV007-11.04.14	11/4/14 @ 1449	Air-SV	TO-15 for VOCs										1 6-liter Summa canister						
SV008-11.04.14	11/4/14 @ 1624	Air-SV	"										"						
DA001-11.04.14	11/4/14 @ 1355	Air-SV	"										"						
MW016-M	11/4/14 @ 1630	GW	TCL SVCS, TCL VOCs, PAH metals (total), dissolved via field filter										2 Amber 2-ptastic 3 VOCs SD						
MW016-D	11/4/14 @	GW	TCL VOCs										3 VOCs SD						
FB03																			
DP01-11.04.14		Air-SV	TO-15 for VOCs										1 6-liter Summa canister						
Comments		Preservation		Check those Applicable		4°C		Frozen		HCl		MeOH		HNO ₃		NaOH		Temperature on Receipt	
		Special Instructions		Field Filtered ☒		Lab to Filter ☐												11/4/14 17:00	
																		Date/Time 11/4/14 1915	
																		Date/Time	



Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Gerald Nicholls

Report Date: 11/13/2014

Client Project ID: 170329301

York Project (SDG) No.: 14K0197

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 11/13/2014
Client Project ID: 170329301
York Project (SDG) No.: 14K0197

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Gerald Nicholls

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 05, 2014 and listed below. The project was identified as your project: **170329301**.

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>
14K0197-01	MW016-M	Water	11/04/2014	11/05/2014
14K0197-02	MW016-D	Water	11/04/2014	11/05/2014
14K0197-03	TB03	Water	11/04/2014	11/05/2014

General Notes for York Project (SDG) No.: 14K0197

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

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 11/13/2014





Sample Information

Client Sample ID: MW016-M

York Sample ID: 14K0197-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0197

170329301

Water

November 4, 2014 4:30 pm

11/05/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
71-55-6	1,1,1-Trichloroethane	0.84	CCV-E	ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
75-34-3	1,1-Dichloroethane	0.62	CCV-E	ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
75-35-4	1,1-Dichloroethylene	0.45	CCV-E	ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
			J								
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
95-50-1	1,2-Dichlorobenzene	0.71		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
106-46-7	1,4-Dichlorobenzene	0.42	J	ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
108-90-7	Chlorobenzene	0.54		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS



Sample Information

Client Sample ID: MW016-M

York Sample ID: 14K0197-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0197

170329301

Water

November 4, 2014 4:30 pm

11/05/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	0.75	CCV-E	ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	1.8		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
75-09-2	Methylene chloride	2.3	CCV-E , B	ug/L	1.0	2.0	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
127-18-4	Tetrachloroethylene	7.3		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
79-01-6	Trichloroethylene	1.3		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/11/2014 17:12	11/12/2014 01:48	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	115 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	96.3 %	79-122								
2037-26-5	Surrogate: Toluene-d8	88.5 %	81-117								



Sample Information

Client Sample ID: MW016-M

York Sample ID: 14K0197-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0197

170329301

Water

November 4, 2014 4:30 pm

11/05/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
98-86-2	Acetophenone	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
62-53-3	Aniline	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
1912-24-9	Atrazine	ND		ug/L	0.513	0.513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
100-52-7	Benzaldehyde	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
92-87-5	Benzidine	ND		ug/L	10.3	20.5	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
65-85-0	Benzoic acid	ND		ug/L	25.6	51.3	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
105-60-2	Caprolactam	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
86-74-8	Carbazole	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH



Sample Information

Client Sample ID: MW016-M

York Sample ID: 14K0197-01

York Project (SDG) No.
14K0197

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 4:30 pm

Date Received
11/05/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
117-81-7	Bis(2-ethylhexyl)phthalate	0.913	B	ug/L	0.513	0.513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
206-44-0	Fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.513	0.513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
67-72-1	Hexachloroethane	ND		ug/L	0.513	0.513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
78-59-1	Isophorone	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
98-95-3	Nitrobenzene	ND		ug/L	0.256	0.256	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.513	0.513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
85-01-8	Phenanthrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
129-00-0	Pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:12	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH



Sample Information

Client Sample ID: MW016-M

York Sample ID: 14K0197-01

York Project (SDG) No.
14K0197

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 4:30 pm

Date Received
11/05/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:20	KH
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	22.8 %			10-47						
4165-62-2	Surrogate: Phenol-d5	16.4 %			10-37						
4165-60-0	Surrogate: Nitrobenzene-d5	47.7 %			10-109						
321-60-8	Surrogate: 2-Fluorobiphenyl	39.1 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	61.9 %			10-112						
1718-51-0	Surrogate: Terphenyl-d14	53.4 %			10-137						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-39-3	Barium	0.078		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-70-2	Calcium	108		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7439-89-6	Iron	0.055		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7439-95-4	Magnesium	23.3		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7439-96-5	Manganese	4.95		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-09-7	Potassium	13.3		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7782-49-2	Selenium	0.025		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-23-5	Sodium	69.0		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW
7440-66-6	Zinc	0.010		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:08	MW

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

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

Client Sample ID: MW016-M

York Sample ID: 14K0197-01

York Project (SDG) No.
14K0197

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 4:30 pm

Date Received
11/05/2014

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-39-3	Barium	0.076		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-70-2	Calcium	107		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7439-95-4	Magnesium	23.4		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7439-96-5	Manganese	4.83		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-09-7	Potassium	13.1		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7782-49-2	Selenium	0.021		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-23-5	Sodium	69.2		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW
7440-66-6	Zinc	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:32	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/11/2014 11:27	11/12/2014 07:08	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/11/2014 11:27	11/12/2014 07:08	ALD



Sample Information

Client Sample ID: MW016-D

York Sample ID: 14K0197-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0197

170329301

Water

November 4, 2014 4:45 pm

11/05/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
108-90-7	Chlorobenzene	0.33	J	ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
67-66-3	Chloroform	0.23	J	ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
156-59-2	cis-1,2-Dichloroethylene	0.39		CCV-E ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS



Sample Information

Client Sample ID: MW016-D

York Sample ID: 14K0197-02

York Project (SDG) No.
14K0197

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 4:45 pm

Date Received
11/05/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	0.70		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
75-09-2	Methylene chloride	2.8	CCV-E , B	ug/L	1.0	2.0	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
95-47-6	o-Xylene	0.24	J	ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
179601-23-1	p- & m- Xylenes	0.53	J	ug/L	0.50	1.0	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
127-18-4	Tetrachloroethylene	15		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
79-01-6	Trichloroethylene	0.98		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
1330-20-7	* Xylenes, Total	0.77	J	ug/L	0.60	1.5	1	EPA 8260C	11/11/2014 17:12	11/12/2014 02:27	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	113 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	94.0 %	79-122								
2037-26-5	Surrogate: Toluene-d8	92.3 %	81-117								



Sample Information

Client Sample ID: MW016-D

York Sample ID: 14K0197-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0197

170329301

Water

November 4, 2014 4:45 pm

11/05/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
98-86-2	Acetophenone	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
62-53-3	Aniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
120-12-7	Anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
1912-24-9	Atrazine	ND		ug/L	0.541	0.541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
100-52-7	Benzaldehyde	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
92-87-5	Benzidine	ND		ug/L	10.8	21.6	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
65-85-0	Benzoic acid	ND		ug/L	27.0	54.1	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
105-60-2	Caprolactam	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
86-74-8	Carbazole	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
132-64-9	Dibenzofuran	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH



Sample Information

Client Sample ID: MW016-D

York Sample ID: 14K0197-02

York Project (SDG) No.
14K0197

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 4:45 pm

Date Received
11/05/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
117-81-7	Bis(2-ethylhexyl)phthalate	4.84	B	ug/L	0.541	0.541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
206-44-0	Fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0216	0.0216	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.541	0.541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
67-72-1	Hexachloroethane	ND		ug/L	0.541	0.541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
78-59-1	Isophorone	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
95-48-7	2-Methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
98-95-3	Nitrobenzene	ND		ug/L	0.270	0.270	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.541	0.541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.270	0.270	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
85-01-8	Phenanthrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
108-95-2	Phenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
129-00-0	Pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	11/11/2014 14:59	11/12/2014 16:42	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH



Sample Information

Client Sample ID: MW016-D

York Sample ID: 14K0197-02

York Project (SDG) No.
14K0197

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 4:45 pm

Date Received
11/05/2014

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	11/11/2014 14:59	11/12/2014 18:51	KH
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	26.3 %			10-47						
4165-62-2	Surrogate: Phenol-d5	16.4 %			10-37						
4165-60-0	Surrogate: Nitrobenzene-d5	48.3 %			10-109						
321-60-8	Surrogate: 2-Fluorobiphenyl	39.6 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	68.0 %			10-112						
1718-51-0	Surrogate: Terphenyl-d14	59.3 %			10-137						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-39-3	Barium	0.042		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-70-2	Calcium	85.5		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7439-89-6	Iron	0.068		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7439-95-4	Magnesium	26.3		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7439-96-5	Manganese	0.031		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-09-7	Potassium	4.87		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7782-49-2	Selenium	0.018		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-23-5	Sodium	67.0		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW
7440-66-6	Zinc	0.012		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:20	11/12/2014 03:13	MW

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

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

Client Sample ID: MW016-D

York Sample ID: 14K0197-02

York Project (SDG) No.
14K0197

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 4:45 pm

Date Received
11/05/2014

Metals, Target Analyte, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-39-3	Barium	0.040		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-70-2	Calcium	83.6		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7439-95-4	Magnesium	25.7		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7439-96-5	Manganese	0.015		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-09-7	Potassium	4.80		mg/L	0.050	0.050	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7782-49-2	Selenium	0.021		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-23-5	Sodium	71.0		mg/L	0.100	0.100	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW
7440-66-6	Zinc	0.012		mg/L	0.010	0.010	1	EPA 6010C	11/11/2014 14:14	11/12/2014 00:37	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/11/2014 11:27	11/12/2014 07:08	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	11/11/2014 11:27	11/12/2014 07:08	ALD



Sample Information

Client Sample ID: TB03

York Sample ID: 14K0197-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14K0197

170329301

Water

November 4, 2014 3:00 pm

11/05/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS



Sample Information

Client Sample ID: TB03

York Sample ID: 14K0197-03

York Project (SDG) No.
14K0197

Client Project ID
170329301

Matrix
Water

Collection Date/Time
November 4, 2014 3:00 pm

Date Received
11/05/2014

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
75-09-2	Methylene chloride	2.8	CCV-E , B	ug/L	1.0	2.0	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	11/11/2014 17:12	11/12/2014 03:06	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	96.4 %	79-122								
2037-26-5	Surrogate: Toluene-d8	90.3 %	81-117								



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
14K0197-01	MW016-M	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0197-02	MW016-D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14K0197-03	TB03	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. Data users should consider anything <10x the blank value as artifact.

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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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





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YORK
ANALYTICAL LABORATORIES INC.

Field Chain-of-Custody Record

Page 1 of 1

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

York Project No. 14K0197

YOUR INFORMATION		Report To:		Invoice To:		YOUR PROJECT ID		Turn-Around Time		Report Type	
Company: <u>Langan Engineering</u> Address: <u>360 W. 31st St</u> <u>New York, NY</u> Phone No. <u>212-479-5519</u> Contact Person: <u>Sara Dantich</u> E-Mail Address: <u>sdantich@langan.com</u>		Company: <u>Langan</u> Address: <u>SAME</u> Phone No. <u>212-479-5559</u> Attention: <u>Gerry Nichols</u> <u>Michelle Puges</u> <u>gnichols@langan.com</u> E-Mail Address: <u>gnichols@langan.com</u>		Company: <u>Langan</u> Address: <u>SAME</u> Phone No. <u>212-479-5559</u> Attention: <u>Sara Dantich</u> <u>sdantich@langan.com</u> E-Mail Address: <u>sdantich@langan.com</u>		<u>170329301</u> Purchase Order No. Samples from: CT <u>NY</u> NJ		☐ RUSH - Same Day ☐ RUSH - Next Day ☐ RUSH - Two Day ☐ RUSH - Three Day ☐ RUSH - Four Day Standard (5-7 Days)		☐ Summary Report ☐ Summary w/ QA Summary ☐ CT RCP Package ☐ CTRCP DQA/DUE Pkg ☐ NY ASP A Package ☐ NY ASP B Package ☐ NJDEP Red. Deliv. Electronic Data Deliverables (EDD) ☒ Simple Excel ☐ NYSECEQ EQLIS ☐ EQLIS (std) ☐ EZ-EDD (EQLIS) ☐ NJDEP SRP HazSite EDD ☐ GIS/KEY (std) ☐ Other York Regulatory Comparison ☐ Excel Spreadsheet Compare to the following Regs. (please fill in):	
Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.											
Matrix Codes S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		Samples Collected/Authorized By (Signature) <u>Sara Dantich</u> Name (printed)		Choose Analyses Needed from the Menu Above and Enter Below <u>TCL VOCs and SVOCs, and</u> <u>TCL VOCs</u>		Container Description(s) <u>2 Amber 20ml vials</u> <u>2 VOA's</u>		Temperature on Receipt <u>4.0 °C</u>			
Sample Identification <u>MW016-M</u> <u>MW016-D</u> <u>TB03</u>		Date/Time Sampled <u>11/4/14 @ 1630</u> <u>11/4/14 @ 1645</u>		Sample Matrix <u>GW</u> <u>GW</u>		4°C ☐ Frozen ☒ HCl ☒ MeOH ☒ HNO ₃ ☒ NaOH ☒ Other		Samples Relinquished By <u>[Signature]</u> Date/Time <u>11/5/14 1815</u> Samples Relinquished By <u>[Signature]</u> Date/Time <u>11/5/14 1815</u>			
Preservation Check those Applicable Special Instructions ☒ Field Filled ☒ Lab to Filter ☐		Comments <u>mmments</u>									

Soil Vapor Sampling Log
491 Wortman Avenue
Langan Project No.: 170329301

[illegible]

2700 Kelly Road, Suite 200 Warrington, PA 18976 T: 215.491.6500 F: 215.491.6501**Mailing Address: P.O. Box 1569 Doylestown, PA 18901**

To: Gerald Nicholls, Langan Senior Project Manager

From: Emily Strake, Langan Project Chemist/Risk Assessor

Date: December 17, 2014

Re: Data Usability Summary Report
For 491 Wortman Ave.
Brooklyn, New York
Soil Vapor and Groundwater Samples Collected November 2014
Langan Project No.: 170329301

This memorandum presents the findings of an analytical data validation of the data generated from the analysis of soil vapor and groundwater samples collected on November 3 and 4, 2014 by Langan Engineering and Environmental Services ("Langan") at 491 Wortman Ave. located in Brooklyn, New York ("the Site"). The samples were analyzed by York Analytical (NYSDOH ELAP registration # 10854) for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, and mercury (Hg) by the following methods:

- VOCs by SW-846 Method 8260C
- VOCs by USEPA Method TO-15
- SVOCs by SW-846 Method 8270D
- Metals by SW-846 6010C
- Mercury by SW-846 Method 7473

Table 1, below, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

Table 1: Sample Summary

<i>SDG</i>	<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Sample Date</i>	<i>Analytical Parameters</i>
14K0085	14K0085-01	MW012-S	11/03/2014	VOCs, SVOCs, Metals
14K0085	14K0085-02	MW012-M	11/03/2014	VOCs, SVOCs, Metals
14K0085	14K0085-03	MW012-D	11/03/2014	VOCs, SVOCs, Metals
14K0085	14K0085-04	MW013-S	11/03/2014	VOCs, SVOCs, Metals
14K0085	14K0085-05	MW013-M	11/03/2014	VOCs, SVOCs, Metals
14K0085	14K0085-06	MW013-D	11/03/2014	VOCs, SVOCs, Metals
14K0085	14K0085-07	MW014-S	11/03/2014	VOCs, SVOCs, Metals
14K0085	14K0085-08	MW015-S	11/03/2014	VOCs, SVOCs, Metals

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<i>SDG</i>	<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Sample Date</i>	<i>Analytical Parameters</i>
14K0085	14K0085-09	TB01	11/03/2014	VOCs
14K0085	14K0085-10	DUP01	11/03/2014	VOCs, SVOCs, Metals
14K0115	14K0115-01	MW014-M	11/4/2014	VOCs, SVOCs, Metals
14K0115	14K0115-02	MW014-D	11/4/2014	VOCs, SVOCs, Metals
14K0115	14K0115-03	MW015-M	11/4/2014	VOCs, SVOCs, Metals
14K0115	14K0115-04	MW015-D	11/4/2014	VOCs, SVOCs, Metals
14K0115	14K0115-05	MW016-S	11/4/2014	VOCs, SVOCs, Metals
14K0115	14K0115-06	FB01_11.04.14	11/4/2014	VOCs, SVOCs, Metals
14K0115	14K0115-07	TB02	11/4/2014	VOCs
14K0115	14K0115-08	SV004-11.04.14	11/4/2014	VOCs
14K0115	14K0115-09	SV005-11.04.14	11/4/2014	VOCs
14K0115	14K0115-10	SV006-11.04.14	11/4/2014	VOCs
14K0115	14K0115-11	SV007-11.04.14	11/4/2014	VOCs
14K0115	14K0115-12	SV008-11.04.14	11/4/2014	VOCs
14K0115	14K0115-13	OA001-11.04.14	11/4/2014	VOCs
14K0115	14K0115-14	DUP01-11.04.14	11/4/2014	VOCs
14K0197	14K0197-01	MW016-M	11/4/2014	VOCs, SVOCs, Metals
14K0197	14K0197-02	MW016-D	11/4/2014	VOCs, SVOCs, Metals
14K0197	14K0197-03	TB03	11/4/2014	VOCs

Validation Overview

This data validation was performed in accordance with USEPA Region II Standard Operating Procedure (SOP) #HW-34, "Trace Volatile Data Validation" (February 2013, Revision 3), USEPA Region II SOP #HW-35, "Semivolatile Data Validation" (March 2013, Revision 2), USEPA Region II SOP #HW-2a, "ICP-AES Data Validation" (December 2012, Revision 15), USEPA Region II SOP #HW2c, "Mercury and Cyanide Data Validation," USEPA Region II SOP #HW-31, "Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15" (June 2014, Revision 6), the USEPA Contract Laboratory Program "National Functional Guidelines for Superfund Organic Methods Data Review" (USEPA-540R-08-01, June 2008), and the "National Functional Guidelines for Inorganic Superfund Data Review" (USEPA-540R-10-011, January 2010).

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Validation includes reconstruction of the analytical data to verify that data are easily traceable and sufficiently complete to permit logical reconstruction by a qualified individual other than the originator. Items subject to review in this memorandum include holding times, sample preservation, sample extraction and digestion, instrument tuning, instrument calibration, laboratory blanks, laboratory control samples, system monitoring compounds, internal standard area counts, matrix spike/spike duplicate recoveries, target compound identification and quantification, chromatograms, overall system performance, serial dilutions, field duplicate, trip blank, and field blank sample results.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

- R** – The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
- J** – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
- U** – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- NJ** – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items specified for review. Data that is qualified as "R" are not sufficiently valid and technically supportable to be used for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified.

Table 2: Validator-applied qualification

Client Sample ID	Analysis	Analyte	CAS #	Validator Qualifier
TB01	VOCs	Acetone	67-64-1	U (2.0)

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<i>Client Sample ID</i>	<i>Analysis</i>	<i>Analyte</i>	<i>CAS #</i>	<i>Validator Qualifier</i>
TB01	VOCs	Acrolein	100-02-8	UJ
TB01	VOCs	TBA	75-65-0	UJ
MW012-S	VOCs	Acetone	67-64-1	U (2.2)
MW012-S	VOCs	Acrolein	100-02-8	UJ
MW012-S	VOCs	TBA	75-65-0	UJ
MW012-S	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	U (0.789)
MW012-S	SVOCs	Benzoic acid	65-85-0	UJ
MW012-S	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
MW012-S	SVOCs	4-Nitrophenol	100-02-7	UJ
MW012-S	SVOCs	2,4-Dinitrophenol	51-28-5	UJ
MW012-M	VOCs	Acetone	67-64-1	U (2.4)
MW012-M	VOCs	Acrolein	100-02-8	UJ
MW012-M	VOCs	TBA	75-65-0	UJ
MW012-M	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	U (0.908)
MW012-M	SVOCs	Benzoic acid	65-85-0	UJ
MW012-M	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
MW012-M	SVOCs	4-Nitrophenol	100-02-7	UJ
MW012-M	SVOCs	2,4-Dinitrophenol	51-28-5	UJ
MW012-D	VOCs	Acrolein	100-02-8	UJ
MW012-D	VOCs	TBA	75-65-0	UJ
MW012-D	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	U (2.98)
MW012-D	SVOCs	Benzoic acid	65-85-0	UJ
MW012-D	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
MW012-D	SVOCs	4-Nitrophenol	100-02-7	UJ
MW012-D	SVOCs	2,4-Dinitrophenol	51-28-5	UJ
MW013-S	VOCs	Acrolein	100-02-8	UJ
MW013-S	VOCs	TBA	75-65-0	UJ
MW013-S	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	U (1.28)
MW013-S	SVOCs	Benzoic acid	65-85-0	UJ
MW013-S	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
MW013-S	SVOCs	4-Nitrophenol	100-02-7	UJ
MW013-S	SVOCs	2,4-Dinitrophenol	51-28-5	UJ

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<i>Client Sample ID</i>	<i>Analysis</i>	<i>Analyte</i>	<i>CAS #</i>	<i>Validator Qualifier</i>
MW013-M	VOCs	Acrolein	100-02-8	UJ
MW013-M	VOCs	TBA	75-65-0	UJ
MW013-M	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	U (3.25)
MW013-M	SVOCs	Benzoic acid	65-85-0	UJ
MW013-M	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
MW013-M	SVOCs	4-Nitrophenol	100-02-7	UJ
MW013-M	SVOCs	2,4-Dinitrophenol	51-28-5	UJ
MW013-D	VOCs	Acetone	67-64-1	U (1.2)
MW013-D	VOCs	Acrolein	100-02-8	UJ
MW013-D	VOCs	TBA	75-65-0	UJ
MW013-D	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	U (1.38)
MW013-D	SVOCs	Benzoic acid	65-85-0	UJ
MW013-D	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
MW013-D	SVOCs	4-Nitrophenol	100-02-7	UJ
MW013-D	SVOCs	2,4-Dinitrophenol	51-28-5	UJ
MW014-S	VOCs	Acrolein	100-02-8	UJ
MW014-S	VOCs	TBA	75-65-0	UJ
MW014-S	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	U (2.12)
MW014-S	SVOCs	Benzoic acid	65-85-0	UJ
MW014-S	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
MW014-S	SVOCs	4-Nitrophenol	100-02-7	UJ
MW014-S	SVOCs	2,4-Dinitrophenol	51-28-5	UJ
MW015-S	VOCs	Acetone	67-64-1	U (1.7)
MW015-S	VOCs	Acrolein	100-02-8	UJ
MW015-S	VOCs	TBA	75-65-0	UJ
MW015-S	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	U (4.74)
MW015-S	SVOCs	Benzoic acid	65-85-0	UJ
MW015-S	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
MW015-S	SVOCs	4-Nitrophenol	100-02-7	UJ
MW015-S	SVOCs	2,4-Dinitrophenol	51-28-5	UJ
DUP01	VOCs	Acetone	67-64-1	U (1.3)
DUP01	VOCs	Acrolein	100-02-8	UJ

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<i>Client Sample ID</i>	<i>Analysis</i>	<i>Analyte</i>	<i>CAS #</i>	<i>Validator Qualifier</i>
DUP01	VOCs	TBA	75-65-0	UJ
DUP01	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	U (3.28)
DUP01	SVOCs	Benzoic acid	65-85-0	UJ
DUP01	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
DUP01	SVOCs	4-Nitrophenol	100-02-7	UJ
DUP01	SVOCs	2,4-Dinitrophenol	51-28-5	UJ
MW016-M	VOCs	Methylene chloride	75-09-2	U (2.3)
MW016-M	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	U (0.913)
MW016-M	SVOCs	Atrazine	1912-24-9	UJ
MW016-M	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
MW016-M	SVOCs	4-Nitrophenol	100-02-7	UJ
MW016-M	SVOCs	Benzidine	92-87-5	UJ
MW016-D	VOCs	Methylene chloride	75-09-2	U (2.8)
MW016-D	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	U (4.84)
MW016-D	SVOCs	Atrazine	1912-24-9	UJ
MW016-D	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
MW016-D	SVOCs	4-Nitrophenol	100-02-7	UJ
MW016-D	SVOCs	Benzidine	92-87-5	UJ
TB03	VOCs	Methylene chloride	75-09-2	U (2.8)
MW014-M	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
MW014-M	SVOCs	1,3-Dichlorobenzene	541-73-1	UJ
MW014-M	SVOCs	Acetophenone	98-862	UJ
MW014-M	SVOCs	Benzidine	92-87-5	UJ
MW014-M	VOCs	1,1-Dichloroethane	75-34-3	J
MW014-M	VOCs	Chloroform	67-66-3	J
MW014-M	VOCs	cis-1,2-Dichloroethene	126-59-2	J
MW014-M	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	U (2.53)
MW014-M	Metals	Zinc	7440-66-6	U (0.014)
MW014-D	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
MW014-D	SVOCs	1,3-Dichlorobenzene	541-73-1	UJ
MW014-D	SVOCs	Acetophenone	98-862	UJ
MW014-D	SVOCs	Benzidine	92-87-5	UJ

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<i>Client Sample ID</i>	<i>Analysis</i>	<i>Analyte</i>	<i>CAS #</i>	<i>Validator Qualifier</i>
MW014-D	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	U (30.3)
MW014-D	VOCs	Chloroform	67-66-3	J
MW014-D	VOCs	cis-1,2-Dichloroethene	126-59-2	J
MW014-D	Metals	Zinc	7440-66-6	U (0.021)
MW015-M	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
MW015-M	SVOCs	1,3-Dichlorobenzene	541-73-1	UJ
MW015-M	SVOCs	Acetophenone	98-862	UJ
MW015-M	SVOCs	Benzidine	92-87-5	UJ
MW015-M	Metals	Zinc	7440-66-6	U (0.012)
MW015-M	VOCs	1,1-Dichloroethane	75-34-3	J
MW015-M	VOCs	Acetone	67-64-1	U (2.0)
MW015-M	VOCs	cis-1,2-Dichloroethene	126-59-2	J
MW015-M	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	U (1.87)
MW015-D	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
MW015-D	SVOCs	1,3-Dichlorobenzene	541-73-1	UJ
MW015-D	SVOCs	Acetophenone	98-862	UJ
MW015-D	SVOCs	Benzidine	92-87-5	UJ
MW015-D	Metals	Zinc	7440-66-6	U (0.013)
MW015-D	VOCs	Chloroform	67-66-3	J
MW015-D	VOCs	cis-1,2-Dichloroethene	126-59-2	J
MW015-D	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	U (2.54)
MW016-S	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
MW016-S	SVOCs	1,3-Dichlorobenzene	541-73-1	UJ
MW016-S	SVOCs	Acetophenone	98-862	UJ
MW016-S	SVOCs	Bis(2-ethylhexyl)phthalate	117-81-7	R
MW016-S	SVOCs	Benzidine	92-87-5	UJ
MW016-S	Metals	Zinc	7440-66-6	U (0.021)
MW016-S	VOCs	cis-1,2-Dichloroethene	126-59-2	J
MW016-S	VOCs	Methylene chloride	75-09-2	J
FB01_11.04.14	SVOCs	Hexachlorocyclopentadiene	77-47-4	UJ
FB01_11.04.14	SVOCs	1,3-Dichlorobenzene	541-73-1	UJ
FB01_11.04.14	SVOCs	Acetophenone	98-862	UJ

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<i>Client Sample ID</i>	<i>Analysis</i>	<i>Analyte</i>	<i>CAS #</i>	<i>Validator Qualifier</i>
FB01_11.04.14	SVOCs	Benzidine	92-87-5	UJ
FB01_11.04.14	VOCs	Acetone	67-64-1	U (2.0)
TB02	VOCs	Acetone	67-64-1	U (2.0)
SV004-11.04.14	VOCs	1,4-Dioxane	123-91-1	UJ
SV004-11.04.14	VOCs	Vinyl acetate	108-05-4	UJ
SV005-11.04.14	VOCs	1,4-Dioxane	123-91-1	UJ
SV005-11.04.14	VOCs	Vinyl acetate	108-05-4	UJ
SV006-11.04.14	VOCs	1,4-Dioxane	123-91-1	UJ
SV006-11.04.14	VOCs	Vinyl acetate	108-05-4	UJ
SV007-11.04.14	VOCs	1,4-Dioxane	123-91-1	UJ
SV007-11.04.14	VOCs	Vinyl acetate	108-05-4	UJ
SV007-11.04.14	VOCs	n-Hexane	110-54-3	J
SV007-11.04.14	VOCs	Isopropanol	67-63-0	J
SV008-11.04.14	VOCs	1,4-Dioxane	123-91-1	UJ
SV008-11.04.14	VOCs	Vinyl acetate	108-05-4	UJ
OA001-11.04.14	VOCs	1,4-Dioxane	123-91-1	UJ
OA001-11.04.14	VOCs	Vinyl acetate	108-05-4	UJ
DUP01-11.04.14	VOCs	1,4-Dioxane	123-91-1	UJ
DUP01-11.04.14	VOCs	Vinyl acetate	108-05-4	UJ
DUP01-11.04.14	VOCs	n-Hexane	110-54-3	J
DUP01-11.04.14	VOCs	Isopropanol	67-63-0	J

Major Deficiencies:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. The section below describes the major deficiencies that were identified.

SVOCs by SW-846 Method 8270D:

Sample MW016-S displayed an internal standard area count for chrysene-d12 less than the lower control limit (i.e., 50%) at 0.6%. The associated sample result for bis(2-ethylhexyl)phthalate quantitated by chrysene-d12 is rejected.

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Minor Deficiencies:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The section below describes the minor deficiencies that were identified.

VOCs by SW-846 Method 8260C:

Laboratory control sample/control sample duplicate (LCS/LCSD) BK40396-BS1 displayed recoveries less than the lower control limit for benzoic acid (0%) and 4-nitrophenol (6.22%). The associated non-detect benzoic acid sample results are qualified as "UJ."

Method blank sample BK40344-BLK1 displayed a positive detection for acetone at 1.2 µg/L. The associated positive detections are qualified as "U" at the higher of the reporting limit and the sample concentration.

Method blank sample BK40395-BLK1 displayed positive detections for acetone at 1.5 µg/L and 1,2,4-trichlorobenzene at 0.29 µg/L. The associated positive detections are qualified as "U" at the higher of the reporting limit and the sample concentration.

Method blank sample BK40423-BLK1 displayed positive detections for acetone at 1.8 µg/L, 1,2,3-trichlorobenzene at 0.25 µg/L and 1,2,4-trichlorobenzene at 0.21 µg/L. The associated positive detections are qualified as "U" at the higher of the reporting limit and the sample concentration.

Method blank sample BK40488-BLK1 displayed positive detections for hexachlorobutadiene at 0.28 µg/L, 1,2,3-trichlorobenzene at 0.40 µg/L and 1,2,4-trichlorobenzene at 0.29 µg/L. The associated positive detections are qualified as "U" at the higher of the reporting limit and the sample concentration.

The initial calibration analyzed on instrument MS VOA2 exhibited relative standard deviations (RSDs) greater than the control limit (i.e., 30%) for acrolein, TBA, and acetone at 57.32%, 40.02%, and 46.98%, respectively. The associated sample results are qualified as estimated.

Method blank sample BK40498-BLK1 displayed a positive detection for methylene chloride at 6.7 µg/L. The associated positive detections are qualified as "U" at the

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higher of the reporting limit and the sample concentration. The trip blank sample result was also qualified as "U" and was not used to assess sample transport contamination.

LCS/LCSD BK40488-BSD1 displayed recoveries greater than the upper control limit for 1,1,1-trichloroethane (141%), 1,1-dichloroethane (135%), chloroform (132%), cis-1,2-dichloroethene (140%), methylene chloride (142%), and trichlorofluoromethane (147%). The associated positive detections are qualified as "J."

VOCs by USEPA Method TO-15:

LCS/LCSD BK40369-BS1 displayed recoveries less than the lower control limit for vinyl acetate at 51.9% and 1,4-dioxane at 65.5%. The associated sample results are qualified as "UJ."

SVOCs by SW-846 Method 8270D:

The continuing calibrations analyzed on instrument BNA#2 displayed percent deviations (%Ds) greater than the control limits with negative biases for hexachlorocyclopentadiene (85.9%, 85%, 95.2%), 4-nitrophenol (28.9%), and 2,4-dinitrophenol (53.3%). The associated sample results were non-detect and are qualified as "UJ."

The method blank samples displayed positive detections for bis(2-ethylhexyl)phthalate at 0.87 µg/L and 0.91 µg/L. The associated positive detections were qualified as "U" at the reporting limit or the sample concentration.

LCS/LCSD BK40435-BS1 displayed recoveries less than the lower control limit for atrazine at 7.54% and 12%. The associated sample results were non-detect and are qualified as "UJ."

The continuing calibrations analyzed on 11/12/14 at 9:30 displayed %Ds greater than the control limits with negative biases for hexachlorocyclopentadiene (88.3%), 4-nitrophenol (89.9%), and benzidine (30.5%). The associated sample results were non-detect and are qualified as "UJ."

The continuing calibrations analyzed on 11/11/14 at 2:47 and 15:35 displayed %Ds greater than the control limits with negative biases for hexachlorocyclopentadiene (85%, 66.6) and benzidine (39%). The associated sample results were non-detect and are qualified as "UJ."

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LCS/LCSD BK40434-BK1 displayed recoveries less than the lower control limit for acetophenone, 1,3-dichlorobenzene, and hexachlorocyclopentadiene. The associated sample results were non-detect and are qualified as "UJ."

The field blank sample collected on 11/4/14 displayed positive detections for bis(2-ethylhexyl)phthalate at 80.7 µg/L and pyrene at 0.133 µg/L. The associated sample results are qualified as "U" at the higher of the sample concentration and the reporting limit.

Metals by SW-846 Method 6010C:

Field blank sample FB01_11.04.14 displayed a positive detection for zinc at 0.012 mg/L. The associated sample results are qualified as "U" at the higher of the sample concentration and the reporting limit.

Other Deficiencies:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The section below describes the other deficiencies that were identified.

VOCs by SW-846 Method 8260C:

Trip blank sample TB01 displayed a positive detection for acetone at 1.5 µg/L. The result was affected by laboratory blank contamination and was not used to assess contamination resulting from sample transport.

Matrix spike/spike duplicate (MS/SD) sample MW012-M (batch BK40344) displayed recoveries greater than the upper control limit for trichloroethene at 191% and 185%, respectively. Data is not qualified on the basis of MS/SD recoveries alone.

MS/SD sample MW012-M (batch BK40395) displayed recoveries less than the lower control limit for 1,1,1-trichloroethane (62.4% and 67.7%), acetone (-121% and -134%), cis-1,2-dichloroethene (40.4% and 47.9%), tetrachloroethene (6.1% and 3.1%), and trichloroethene (-600% and -607%). Data is not qualified on the basis of MS/SD recoveries alone.

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LCS/LCSD BK40498-BS1 exhibited recoveries greater than the upper control limit for methylene chloride at 188% and 186%. The sample results were previously qualified; no further action is required.

Method blank sample BK40498-BLK1 displayed positive detections for 1,2,4-trichlorobenzene, n-butylbenzene, and p-isopropyltoluene, sec-butylbenzene. The associated sample results were non-detect; no qualification is necessary.

The continuing calibration analyzed on 11/11/14 at 11:11 displayed a %D greater than the control limit with a positive bias for carbon tetrachloride at 37.5%. The associated sample results were non-detect; no qualification is necessary.

Trip blank and field blank samples collected on 11/4/14 displayed positive detections for acetone. The sample results were qualified as "U" due to method blank contamination. No further action is required.

VOCs by USEPA Method TO-15:

The calibration verification displayed a %D greater than the control limit for vinyl acetate at 39%. The sample results were previously qualified; no further action is necessary.

The continuing calibration displayed a %D greater than the control limit with a negative bias for carbon tetrachloride at 34.8%. The method permits up to two analytes to have %Ds greater than 30% up to a limit of 40%.

LCS/LCSD BK40369-BS1 displayed a recovery greater than the upper control limit for 1,3-butadiene at 131%. The associated sample results were non-detect; no qualification is required.

SVOCs by SW-846 Method 8270D:

Sample MW013-M displayed a surrogate recovery greater than the upper control limit for 2,4,6-tribromophenol at 117%. The remaining two acid-extractable surrogates recovered within control; no qualification is necessary.

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Sample MW014-S displayed a surrogate recovery less than the lower control limit for phenol-d5 at 9.54%. The remaining two acid-extractable surrogates recovered within control; no qualification is necessary.

MS/SD sample MW012-M displayed recoveries and/or relative percent differences (RPDs) outside of control limits for benzoic acid, caprolactam, 2,4-dinitrophenol, hexachlorocyclopentadiene, n-nitrosodiphenylamine, phenol, 2,3,4,6-tetrachlorophenol, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, carbazole, di-n-butylphthalate, diethyl phthalate, 4,6-dinitro-2-methylphenol, 2,4-dinitrotoluene, bis(2-ethylhexyl)phthalate, fluoranthene, hexachlorobenzene, 2-methylphenol, 3&4-methylphenol, 4-nitroaniline, 4-nitrophenol, n-nitrosodimethylamine, and pentachlorophenol. Data is not qualified on the basis of MS/SD recoveries or RPDs alone.

LCS/LCSD BK40396-BS1 displayed recoveries greater than the upper control limit for acenaphthene, bis(2-chloroethoxy)methane, 2-chloronaphthalene, 4-chlorophenyl phenyl ether, dibenzofuran, di-n-butyl phthalate, 1,4-dichlorobenzene, 1,2-dichlorobenzene, diethyl phthalate, 1,2-diphenylhydrazine, fluorine, hexachloroethane, 2-methylnaphthalene, 3&4-methylphenols, phenanthrene, and 1,2,4-trichlorobenzene. The associated sample results were non-detect; no qualification is required.

The continuing calibration analyzed on 11/12/14 at 8:51 displayed %Ds greater than the control limit with positive biases for fluoranthene and benzo(a)pyrene at 29.4% and 28.2%, respectively. The associated sample results were non-detect; no qualification is required.

Field blank sample FB01_11.01.14 displayed surrogate recoveries greater than the control limit for 2-fluorophenol and phenol-d5. The associated sample results were non-detect; no qualification is necessary.

Metals by SW-846 Method 6010C:

CRDL standards Y4K1204-CRL1, Y4K1204-CRL2, Y4K1203-CRL2, and Y4K1203-CRL1 displayed recoveries less than the lower control limit for total and dissolved aluminum. The sample results were orders of magnitude greater than the reporting limit; no qualification is necessary.

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Comments:

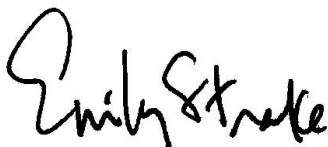
A field duplicate and parent sample pair (SV007 and DUP-01) was collected and analyzed VOCs in soil vapor. For results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less than $\pm 1X$ the RL. For results greater than 5X the RL, analytes meet the precision criteria if the RPD is less than or equal to 35%. Isopropanol and n-hexane failed the precision evaluation. The associated positive detections were qualified as "J."

A field duplicate and parent sample pair (MW013D and DUP01) was collected and analyzed all parameters in groundwater. For results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less than $\pm 1X$ the RL. For results greater than 5X the RL, analytes meet the precision criteria if the RPD is less than or equal to 35%. Bis(2-ethylhexyl)phthalate failed the evaluation. The results were previously qualified on the basis of blank contamination.

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All sample holdtimes were met and the data packages met ASP Category B requirements.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 99%.

Signed:



Emily Strake
Project Chemist/Risk Assessor

16 December 2014

Tenant or Property Owner at
Soiefer Brothers Realty Corp.
100 North Village Avenue
Rockville Centre, NY 11570

EXAMPLE LETTER

**Re: Adjacent Property Owner Notification – 465 Wortman Avenue
Former Watermark Site
491 Wortman Avenue, Brooklyn, NY 11208
Langan Project No.: 170329301**

Dear Tenant or Property Owner:

J & H Holding Company, LLC has been requested by the New York State Department of Environmental Conservation (NYSDEC) to ask you and your neighbors' permission to evaluate your property to determine potential exposure risks based on current use. Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) is submitting these requests on behalf of J & H Holding Company, LLC.

The property located at 491 Wortman Avenue in Brooklyn, New York, was entered into the NYSDEC Brownfield Cleanup Program (BCP) as a Participant in October 2012 and was assigned Site Number C224139. J & H Holding Company, LLC has retained Langan to continue on- and off-site remedial investigation work related to the property. Pursuant to the BCP and as detailed in the NYSDEC-approved Supplemental Remedial Investigation Work Plan – Addendum Revision 1 (SRIWP Addendum), dated June 4, 2014, the continued remedial investigation work shall include an evaluation of the off-site adjacent properties.

Per the BCP and the SRIWP Addendum, Langan is requesting the opportunity to survey adjacent property owners or their representative to determine the current use(s) of the building(s) on the property. The potential exposure risks will be evaluated based on the current use/occupancy of the building(s) and the need for sampling (e.g. indoor air, outdoor air and/or sub-slab vapor) will be determined.

If you agree to participate in this survey, we will work to minimize any inconvenience to you in connection with this survey and any recommended sampling. If sampling is recommended for

your property, you will be made fully aware of the sampling program and sampling will not proceed without a signed agreement.

Please respond to this request via phone (212.479.5559) or email (gnicholls@langan.com) upon receipt of this letter. This letter has been sent via certified mail. If Langan does not receive your response within two weeks of the date on the certified mailing receipt, it will be assumed that you do not wish to participate in the property owner survey.

Thank you for your assistance. Please contact me if you have any questions.

Sincerely,

**Langan Engineering, Environmental, Surveying
and Landscape Architecture, D.P.C.**

Gerald F. Nicholls

Gerald Nicholls, PE, CHMM
Senior Project Manager

cc: M. Komoroske (NYSDEC); J. Abel (Watermark); M. Burke (Langan);
M. Villani (Sahn Ward Coschignano & Baker, PLLC)

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 Street & Apt. No.,
 or PO Box No. **36 Moreland Drive**
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Scarsdale, NY 10583

PS Form 3800, July 2014

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Total Postage & Fees	\$	

Sent To
TENANT or Property Owner @ Ziff Realty Co. LLC
 Street & Apt. No.,
 or PO Box No. **2835 Ocean Avenue**
 City, State, ZIP+4
Brooklyn, NY 11235

PS Form 3800, July 2014

See Reverse for Instructions

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SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

TENANT or Property Owner @
Ziff Realty Co. LLC
2835 Ocean Avenue.
Brooklyn, NY 11235

2. Article Number

(Transfer from service label)

7014 2120 0003 0537 7486

PS Form 3811, July 2013

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Sam Ziff

☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail®☐ Priority Mail Express™☐ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ Collect on Delivery

4. Restricted Delivery? (Extra Fee)

☐ Yes

DEC 20 2014

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

TEENANT or Property owner @
SOIEFER Brothers Realty
100 North Village Avenue
Rockville Centre, NY 11570

2. Article Number

(Transfer from service label)

7014 2120 0003 0537 7479

PS Form 3811, July 2013

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x ☐ Agent☐ Addressee

B. Received by (Printed Name)

J. Burns

C. Date of Delivery

12.22.14

D. Is delivery address different from Item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

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4. Restricted Delivery? (Extra Fee)

☐ Yes

Domestic Return Receipt

Adjacent Properties Summary
Supplemental Remedial Investigation Report
491 Wortman Avenue Brooklyn, New York
BCP Project No.: C224139
Langan Project No.: 170329301

STREET ADDRESS	BLOCK	LOT	CURRENT OWNER	CONTACT INFORMATION	CURRENT SITE USE
920 ESSEX STREET	4384	25	ZIFF REALTY CO LLC	2835 OCEAN AVENUE, BROOKLYN, NY 11235	INDUSTRIAL BUILDING
465 WORTMAN AVENUE	4383	31	SOIEFER BROS RLTY CO (ROCA MANAGEMENT)	100 NORTH VILLAGE AVENUE, ROCKVILLE CENTRE, NY 11570	INDUSTRIAL BUILDING
482 WORTMAN AVENUE	4406	1	SELAR REALTY CORP	36 MOORLAND DRIVE, SCARSDALE, NY 10583	INDUSTRIAL BUILDING

**Adjacent Properties Summary
Supplemental Remedial Investigation Report
491 Wortman Avenue
Brooklyn, New York
BCP Project No.: C224139
Langan Project No.: 170329301**

DATE	USE	CHEMICAL STORAGE	CO Number	ZONING
920 Essex Street (Block 4384, Lot 25)				
10/9/1944	Storage for empty baskets/boxes	N/A	111258	N/A
10/18/1950	Auto wrecking yard	N/A	127623	N/A
12/24/1952	Scrap metal yard	N/A	134212	N/A
3/10/1964	Factory - metal/metal products treatment and processing, junk shop, accessory scrap metal storage	No combustibles stored on premises	187163	M1-1
7/9/1964	Factory - metal/metal products treatment and processing, junk shop, accessory scrap metal storage, loading/unloading berths	No combustibles stored on premises	188637	M1-1
12/1/1964	Factory - metal/metal products treatment and processing, junk shop, accessory scrap metal storage, loading/unloading berths	No combustibles stored on premises	190193	M1-1
7/21/1966	Factory - metal/metal products treatment and processing, junk shop, accessory scrap metal storage, loading/unloading berths, other storage, animal kennels	No combustibles stored on premises	195190	M1-1
1/29/1968	Factory - metal/metal products treatment and processing, junk shop, accessory scrap metal storage, textile/textile products manufacture, loading/unloading berths	Tanks - oxygen (1) & acetylene gas (1) 55-gallon drums - lubricating oil (2) 30-gallon drum - lubricating oil (1)	198827	M1-1
12/30/1969	Manufacture of textile products and textiles, loading/unloading berths, offices	--	202989	M1-1
5/19/1983	Manufacturing of textile products, loading/unloading berths, motor vehicle repair, offices	Tanks - oxygen (# unknown; for medical purposes)	221242	M1-1
8/10/1990	Plastics recycling & manufacture, storage	N/A	234303	M1-1
11/8/1990	Plastics recycling & manufacture, storage	N/A	234824	M1-1
2/6/1991	Plastics recycling & manufacture, storage	N/A	235508	M1-1
4/11/1991	Plastics recycling & manufacture, storage	N/A	236084	M1-1

Notes:

CO: Certificate of occupancy

M1-1: light industrial use zoning

This property is currently classified as an "E-3 Warehouse" (semi-fireproof warehouse) by the Department of Finance.

Most recent Deed Transfer was recorded on 11/12/1997 between Sam Ziff and Ziff Realty Co LLC.

Other address on record: 97 Linwood Street

DATE	USE	CHEMICAL STORAGE	CO Number	ZONING
482 Wortman Avenue (Block 4406, Lot 01)				
11/3/1956	Factory (non-combustible material) with boiler room	Fuel oil	151279	Unrestricted

M-1 - light industrial use zoning

Currently classified as an "E-1 Warehouse" (fireproof warehouse) by the Department of Finance.

The most recent Deed Transfer was recorded on 1/24/1973 between Soiefer Bros. Realty Corp. and Selar Realty Corp.

Other address on record: 1021 Linwood Avenue

**Adjacent Properties Summary
Supplemental Remedial Investigation Report
491 Wortman Avenue
Brooklyn, New York
BCP Project No.: C224139
Langan Project No.: 170329301**

DATE	USE	CHEMICAL STORAGE	CO Number	ZONING
465 Wortman Avenue (Block 4384, Lot 31)				
12/27/1944	Dairy works	N/A	111348	N/A
12/27/1944*	Four car garage	N/A	111349	N/A
10/1/1964	Manufacturing and storage of non-combustibles, loading berth, offices	N/A	189482	Unrestricted
8/26/1965	Manufacturing and storage of non-combustibles/dairy products/milk, offices	N/A	192588	Unrestricted
8/30/1968	Manufacture and storage of plastic products, loading berth, offices	N/A	200229	M1-1
10/29/1970	Manufacture and storage of plastic products, loading berth, offices	N/A	204671	M1-1

M1-1 - light industrial use zoning

* - This entry is intended for Block 4384, Lot 33 but may also apply to Block 4384, Lot 31.

This property is currently classified as an "E-1 Warehouse" (fireproof warehouse) by the Department of Finance.
The most recent Mortgage Assignment was recorded on 1/24/2012 between Soler Bros. Realty Corp. and Citibank N.A. (old lender)
& One West Bank FSR (new lender)
Other address on record: 457 Wortman Avenue