

SITE CHARACTERIZATION REPORT

for

**EAST MAIN STREET PARCELS
3100, 3110, 3200 EAST MAIN STREET
RICHMOND, VIRGINIA**

VRP #00723

PREPARED FOR:

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YOUR VISION ACHIEVED THROUGH OURS.

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SUBMITTED TO:

**VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY
VOLUNTARY REMEDIATION PROGRAM
629 EAST MAIN STREET
RICHMOND, VIRGINIA 23219**

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LIST OF ACRONYMS

ASTM	American Society of Testing and Materials
bgs	below surface grade
COPC	contaminant of potential concern
CSO	combined sewer outfall
DEQ	Virginia Department of Environmental Quality
DPU	Richmond Department of Public Utilities
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
FGW	(former) Fulton Gas Works
ft/d	feet per day
HRECs	historic recognized environmental condition
K	hydraulic conductivity
K _{ow}	octanol-water partition coefficient
MDL	minimum detection limit
MGP	manufactured gas plants
mg/kg	milligrams per kilograms
µg/L	micrograms per liter
ml	milliliters
MS	matrix spike
MSD	matrix spike duplicate
MW	monitoring well
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PID	photoionization detector
ppl	priority pollutant list (metals)
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
REC	recognized environmental condition
SB	soil boring
SCR	site characterization report
SVOC	semi-volatile organic compounds
USGS	United States Geological Survey
UVIF- CPT	ultraviolet-induced fluorescence – cone penetration test
VDOT	Virginia Department of Transportation
VELAP	Virginia Environmental Lab Accreditation Program
VOCs	volatile organic compounds
VGS	Virginia Geotechnical Services
VRP	voluntary remediation program

1.0 BACKGROUND

Parcels located at 3100, 3110, and 3200 East Main Street have a history of residential and commercial uses, as well as undeveloped/vacant periods over the past century. These parcels are mostly northwest-adjacent to the (former) Fulton Gas Works (FGW) and as a result were investigated for potential/associated impact(s) that could be limiting to property redevelopment efforts.

Initial site investigations for both FGW and the East Main Street parcels began with ASTM Standard E 1527-13 Phase I Environmental Site Assessments (ESAs). The results of the Phase I ESA for the East Main Street Parcels identified one recognized environmental condition (REC) in the elevated railroad trestle that extends northwest-southeast along the northern/eastern boundary. At a minimum railroad tracks are suspected sources of environmental impact based on the historical particulate fallout from coal combustion, which commonly contains elevated concentrations of heavy metals. As such, the potential accumulation of these compounds may exist on surface soils. The RECs associated with FGW, which were identified by the corresponding Phase I ESA (published Spring 2015), were not identified as RECs for the East Main Street parcels based on the development history of FGW in conjunction with the areas of previously-identified contamination, as well as the suspected direction of subsurface contaminant migration.

Based on the parcels' proximity to FGW, the properties were initially included in a Voluntary Remediation Program (VRP) application filed with the Virginia Department of Environmental Quality (DEQ). The parcels that were enrolled included:

- 3301 Williamsburg Avenue
- 3100 East Main Street
- 3110 East Main Street
- 3200 East Main Street

All parcels were formally accepted by the DEQ into the VRP on March 25, 2016, under VRP site number (#) 00676. However, based on the results of preparing the draft Site Characterization Report (SCR) for VRP #00676, Timmons Group recommended the removal of the East Main Street parcels for separate VRP enrollment. Given the preliminary site characterization results, the intent of separation was to attain more timely graduation from the VRP for the East Main Street parcels. Following a review of the draft SCR, DEQ concurred with the recommendation and revised the boundary for VRP #00676 to exclude the East Main Street Parcels, which were resultantly registered under VRP #00723 on September 28, 2017.

A map of the East Main Street parcels VRP project boundary (VRP #00723) is included in Appendix A, along with an overall map depicting the project limits in relation to FGW (VRP #00676).

2.0 PREVIOUS ASSESSMENTS

Timmons Group was provided with previously-completed assessments for FGW and the adjoining properties, whose review conveyed a greater understanding of the overall environmental setting. The following documents were reviewed in the completion of this SCR, and all have previously been provided to VDEQ:

- Schnabel Engineering (May 2000) - Virginia Department of Transportation (VDOT) project to connect Main Street and Williamsburg Avenue
- Earth Tech (September 2001) - Property Evaluation Report in September 2001 to identify cleanup costs
- Marshall Miller and Associates (December 2001) – Site Investigation Report prepared for VDOT to study feasibility of roadway improvements of Main Street and Williamsburg Avenue
- Virginia Geotechnical Services (January – March 2006) – Preliminary Environmental Assessment and Preliminary Environmental Assessment Addendum to detail concentrations of contamination on-site.

It should be noted that all regulatory contaminant exceedances reported in the previous studies for FGW and the surrounding properties were to the standards applicable at the time of their respective publication.

The Schnabel report did not offer an extensive narrative but did include analytical results for lead and polycyclic aromatic hydrocarbons (PAHs) from the soil at FGW and the surrounding properties. Boring logs for eight drill locations were included with detailed descriptions of the subsurface conditions. Notably, detectable photoionization detector (PID) measurements and remarks on the odor of the subsurface were noted for six of the boring locations.

Earth Tech conducted a physical analysis of the property without any analytical investigations to formulate an estimate of cleanup costs. Field observations including: depth to water measurements, PID readings, and comments on visual notations were included for a total of 22 test excavations across FGW and the adjoining properties. A varied groundwater table was measured with depths ranging from 2-15 feet below ground surface (bgs), and an opinion was offered that the contaminants of potential concern (COPCs) likely affected the direction of groundwater flow. Though analytical tests were not completed as a part of the property evaluation report, information regarding chemical compounds typically found at manufactured gas plant (MGP) sites was included as a basis for understanding COPCs. Observations regarding the type of contamination typical at MGP sites, interpreted to FGW based on visual observations, was offered with specific detail given to describing the presence of free tars and oils within the subsurface and purifier wastes in the surface soils. From these observations, comments regarding the remediation process were offered, including an outline of the source removal process. An estimate of the costs for remediation was offered at \$1.5-2.5 million. A map of test pit locations, a conceptual cross-section, and boring logs are also included within this report.

Marshall Miller and Associates published a Site Investigation Report to evaluate potential environmental impacts for a proposed Route 5/Main Street improvement. Analytical and visual analyses were conducted to determine the feasibility of the project. From FGW and the surrounding areas, samples from the soil, groundwater, sediment and surface water were collected for analysis. Benzene, toluene, ethylbenzene, and total xylenes (BTEX), PAHs, and lead concentrations were detected within soils at FGW and described in summary format; a complete copy of the analytical report was not included within the obtained text. Sediment samples were collected upstream and downstream of FGW from within Gillies Creek and analyzed for PAHs and lead. Concentrations were detected for multiple contaminants in both samples; however, an increase in the amount of PAHs was noted downstream of FGW with the opinion that “contaminants associated with past activities have significantly affected the sediment downstream” (Marshall Miller & Associates, 2001). Up-and down-stream surface water sampling for PAHs, lead, mercury and arsenic was all below detectable limits.

A Preliminary Environmental Assessment was completed by Virginia Geotechnical Services (VGS) in January 2006. Multiple tasks were covered in this report, including a wetland delineation, geotechnical assessment, and an environmental assessment. Extensive site history, including annual reports from the Department of Public Utilities dated 1935, 1937, and 1947 were included in the report. Detailed information regarding building usage, rebuilding efforts, quantities of materials present on the site, and other functional information was provided from these documents.

VGS retained ConeTec Inc. to conduct ultraviolet-induced fluorescence (UVIF) cone penetration tests (CPTs) as part of their 2006 assessment to produce in-situ data regarding material type and rudimentary characterization of PAHs present in the subsurface. A total of 17 locations were subjected to UVIF-CPT across the site for which the following results were noted:

- Subsurface contamination primarily occurs within the first 15 feet bgs, but extends in cases to up to 20 feet bgs;
- In the southern portion of the Study Area, results generally showed the absence or minimal presence of PAHs;
- Soil types were observed as non-homogenous, with a range of clay, sand, and silt mixtures;
- Two locations located near the northern area of the property near Williamsburg Road indicated strong subsurface contamination from approximately five feet bgs to 13 feet bgs; and

- Converse to the previous, two locations likewise located in the northern area of the site indicated subsurface contamination through the entire profiled subsurface.

The Preliminary Environmental Assessment Addendum completed by VGS in March 2006 included the advancement of two soil borings within the boundaries of FGW, and four from adjoining properties, from which corresponding soil and groundwater samples were collected for analysis. The analytical results reflected multiple DEQ VRP Tier 2 exceedances of Semi-Volatile Organic Compound (SVOC) concentrations and arsenic in the soil, in addition to multiple SVOCs, benzene, metals and pesticides in the groundwater. VGS likewise advanced one soil boring outside of the presently defined VRP site boundaries to the southwest from which one soil and one groundwater sample were collected for analysis. The analytical results reflected multiple DEQ VRP Tier 2 exceedances of multiple SVOCs, pesticides, and arsenic in the soil, and multiple SVOCs and metals exceedances in the groundwater.

3.0 SITE INVESTIGATION WORKPLAN

Based on the studies completed to date in conjunction with DEQ VRP SCR requirements, Timmons Group developed and implemented a work plan for site characterization with input and concurrence by DEQ, as presented by this report. Overall, the following table details the chronology of sampling events:

TABLE 1: Investigative history of the East Main Street parcels

Abbreviated Phase II ESA	June 2-3, 2016	Surface soil samples collected from the East Main Street parcels using a hand auger
Site Characterization	October 25, 2016	Groundwater sample collected from a previously installed monitoring well for site characterization
	November 30, 2016	Geoprobe® borings installed at the East Main Street parcels in conjunction with the FGW site characterization assessment
	November, 2017	Groundwater sample collection from two wells on the East Main Street parcels and sampling of the combined sewer outflow

Timmons Group collected 12 surface soil samples from the Subject Property for the analysis of priority pollutant list (PPL) metals in association with the completion of an abbreviated Phase II ESA per ASTM Standard E 1903-11.

The previously installed monitoring well was not detailed in any of the previous studies so its construction details were evaluated to validate its use for groundwater sampling. After confirming its construction details, the monitoring well was designated as MW-28.1 and sampled by Timmons Group in October 2016 to evaluate the potential presence of groundwater contaminants.

Two Geoprobe® borings were advanced into the subsurface of the East Main Street parcels on November 30, 2016. Following the collection of soil samples, one of the borings was converted to a monitoring well to facilitate groundwater sampling; the other boring was positioned in close proximity to the previously installed groundwater monitoring well referenced above.

Another groundwater sampling event was completed in November 2017 to provide additional data for one of the Geoprobe-installed monitoring wells (MW-29) and MW-28.1.

4.0 PHYSICAL SETTING

4.1 Geology

As described in the Phase I ESA completed for the various parcels that constitute the former VRP #00676, the entire property is located within the Coastal Plain Physiographic Province in close proximity to the Fall Line, which is the boundary separating the Coastal Plain Province and the westward Piedmont Physiographic Province. In general, the Coastal Plain is underlain by a wedge of unconsolidated to semi-consolidated, predominantly clastic sedimentary rocks that consist of mostly sand, silt, and clay with lesser amounts of gravel and limestone. Coastal plain formations thicken seaward from a feather edge at their updip limit along the Fall Line, where they overlie the older metamorphic, igneous, and consolidated sedimentary rocks of the Piedmont Province, and attain thicknesses ranging from approximately 3,500 to 6,500 feet along the coast (Meisler and Miller, 1988).

According to the Geologic Map of Virginia (1993), the East Main Street parcels are underlain by the Chesapeake Group and Lower Tertiary Deposits, which are described below:

Chesapeake Group (map label Tc): may include the following formations within the area of the site - Yorktown, Eastover, Choptank, and Calvert; overall fine-to coarse-grained quartzose sand, silt, and clay; variably shelly and diatomaceous.

Lower Tertiary Deposits (map label TI): Glauconitic quartz sand and clay-silt, shelly in part, minor sandy limestone and limey sand; may include the following formations: Brightseat, Aquia, Marlboro-Nanjemoy, and Piney Point (Pamunkey Group); and Old Church.

Below these geologic units, the site is expectedly underlain by the Petersburg Granite of the Piedmont Physiographic Province, which is generally described as a pink to blue, faintly foliated coarse-grained granite with a high relative hardness.

4.2 Hydrogeology

As demonstrated by the Geologic Map of Virginia in conjunction with applicable published resource data (McFarland and Bruce, 2006), the site is underlain by a mix of formations that each lends to the complex framework of Coastal Plain hydrogeology at its western terminus along the Fall Line.

Of perhaps the greatest relevance to the site is the presence of the Potomac Formation, which thickens eastward and forms the aquifer that is the largest, deepest and most widely used in the source of groundwater in the Virginia Coastal Plain. The Potomac aquifer is overlain across most all of its extent by the Potomac confining zone (unit). Locally incised areas are projected as narrow belts crossing the fall zone along the Potomac, Rappahannock, James, and Nottaway Rivers and Rowanty Creek in eastern Dinwiddie County. The Potomac aquifer crops out across the steepest slopes of these incised areas but is mostly covered by several feet or more of flood plain, terrace, and channel fill sediments that compose the surficial aquifer (McFarland and Bruce, 2006).

Differentiation along the Fall Zone of the Potomac confining zone from the overlying Nanjemoy-Marlboro, Calvert, and/or St. Mary's confining units and from the Yorktown confining unit can be relatively obscured because all of these hydrogeologic units are relatively thin and have indistinct borehole geophysical log signatures (McFarland and Bruce, 2006).

Although the Potomac confining zone is regionally extensive, it impedes groundwater flow primarily at a local scale. Potomac Formation clays generally exhibit small scale published vertical hydraulic conductivities ranging anywhere from 0.0000019 to 0.000081 feet per day (ft/d). Comparatively, published vertical conductivities through the overlying Nanjemoy-Marlboro confining unit range from 0.0000022 to

0.0000363 ft/d (McFarland and Bruce, 2006). Although positioned between the Potomac and Nanjemoy-Marlboro confining units, measurements of vertical conductivity in the Aquia formation are not published.

Published Horizontal hydraulic conductivities for the three formations of interest are as follows:

TABLE 2: Hydraulic conductivities of underlying subsurface materials

Hydrogeologic Unit	Lateral Hydraulic Conductivity (K)
Surficial Aquifer	50-100 ft/d
Nanjemoy-Marlboro Confining Unit	0.000035 ft/d
Aquia Aquifer	50 ft/d
Potomac confining unit	0.0001 to 0.003 ft/d

Each of the above parameters was determined by groundwater model calibration (McFarland, 1999).

4.3 Site Drainage

The 2013 U.S. Geological Survey (USGS) 7.5 Minute topographic map for the Richmond, Virginia Quadrangle was reviewed to extrapolate groundwater characteristics in the area of the Subject Property. As a result, groundwater is determined to flow to the south and west under the influence of the James River which is located approximately 300 feet west of the Subject Property. As the Site is located below the rapids in downtown Richmond, groundwater flow may also be affected by the tidal influence on the lower James River.

Gillies Creek, which lies south of the Subject Property, offers no local effect to groundwater flow since the stream channel is lined with concrete.

5.0 SAMPLING AND ANALYTICAL PROCEDURES

Timmons Group implemented detailed and uniform sampling and analytical procedures for the purpose of ensuring the collection of representative site data from which the extent of environmental impact could be characterized across the site. All samples collected to date have followed this methodology, and all samples collected in the future will likewise follow these procedures as the sampling objective is to collect and analyze samples in accordance with ASTM and industry standards that produce representative results.

5.1 Field Procedures QA/QC

To minimize any potential bias in the sampling and analytical results, standardized procedures were employed for field activities including material usage, equipment calibration, sample collection, sample packaging, and equipment decontamination. The specifics of each procedure are detailed below.

5.1.1 Material Usage

Sampling and monitoring materials utilized for the project were identified prior to work scope implementation and coincided with industry and ASTM Standards as acceptable materials. Disposable sampling equipment was used as available (e.g., dedicated bailers and disposable tubing) to minimize risks of cross-contamination during sample collection.

5.1.2 Equipment Calibration

Measurements of pH and temperature were used as a benchmark to evaluate groundwater stability prior to sample collection. Accordingly, calibration of the pH meter occurred prior to the start of each groundwater sampling event as outlined in the *Operation and Field Manual* that accompanies the device. Calibration records were entered into the field log.

5.1.3 Sample Collection:

Sample collection was completed in accordance with ASTM and industry standards. Nitrile gloves and dedicated sampling materials were used at each location to ensure sample integrity and prevent cross-contamination. Sample containers were either commercially sterilized by the manufacturer and/or prepared by the laboratory.

5.1.4 Sample Packaging

General cleanliness was employed in the areas of sample preparation to minimize potential risks of sample contamination. All soil and groundwater samples were packaged in appropriately sized and preserved containers that were coincidental with the analyte(s) being evaluated. Following collection, the soil and groundwater samples were packed in ice-filled coolers and cooled to 4°C for (additional) preservation and delivery to the laboratory under a chain of custody. Samples were maintained on ice at 4°C following collection pending delivery to the laboratory within the method specified holding time. Additional sampling quality assurance/quality control (QA/QC) procedures are detailed in Section 5.8.

5.1.5 Equipment Decontamination

All field equipment that came into direct contact with sampled materials was decontaminated prior to use to prevent cross-contamination. Field equipment decontamination proceeded in the following manner:

1. Rinse with distilled water,
2. Scrub with a (minimum) 9:1 water-Liqui-Nox[®] solution,
3. Rinse with distilled water, repeat, and
4. Air dry.

Decontamination procedures employed by the Geoprobe[®] operator are detailed in the appropriate sections below.

5.2 Soil Sampling

Surface and subsurface soil samples were collected in association with both the site characterization investigation and the prefacing abbreviated Phase II ESA to measure and delineate suspected contaminant concentrations across the site (Appendix A). A conceptual site model was produced and consulted to identify possible mechanisms of transport and exposure of contaminants across the site and was referenced in the development of the site sampling schema (Appendix B). Soils were identified to be a likely contaminant, and soil sampling was identified as central to the site characterization process. Procedures included the collection of soil samples by hand auger and direct push sampling. During sampling activity, all attempts were made to characterize the nature and composition of the subsurface soils to the best of ability noting specifically soil texture, composition, and any indications of staining as noted by the soil logs.

Soil sampling accomplished both the collection of material for analytical analyses and the creation of a record of subsurface site conditions, as noted in soil boring logs (Appendix C).

5.2.1 Rationale for Soil Sampling

The selection of soil sampling locations was based on several factors including information gained from previous studies detailing site history which alluded to areas of high probability. Sampling locations were

further selected with the intent of providing sufficient coverage to enable comprehensive analysis of the site conditions. Surface sampling was completed using a systematic, grid-like approach while subsurface sampling had a greater degree of randomness based on former site usage.

Based on the historic and continued presence of a railroad trestle on-site and its potential as a source of environmental impact from fallout, metals were sampled from the uppermost levels of the soil horizons. Pesticides were likewise analyzed based on suspected surface applications at FGW and in the surrounding vicinity. PCBs were selected for analysis based on previous studies.

Collected subsurface samples were analyzed for potential contaminants identified by reviewed resources and recommended by DEQ as common to manufactured gas plant sites. Areas of visible staining were notably sampled during the advancement of deep soil borings. The depth to static groundwater was also measured and noted during soil sampling activities at depth with the intention of collecting all such soil samples above the phreatic zone.

5.2.2 Soil Sampling

Soil specimens were collected as grab samples using either a hand auger or direct push machinery. For each method, sampling personnel wore clean, disposable nitrile gloves for sample collection to minimize the introduction of any bias. Soil samples were likewise uniformly retained in appropriate, commercially prepared/sterilized containers that were provided by the contracted laboratory. Furthermore, all samples were packed according to method requirements and upon sealing were appropriately labeled and preserved for transportation to the laboratory for analysis. Sampling methods utilized during the site characterization assessment are as follows:

5.2.2.1 Soil Sample Collection by Stainless-Steel Hand Auger

The sampling protocol for using a stainless-steel hand auger is as follows:

Prior to the collection of a soil sample, the hand auger is washed in an Liqui-Nox® solution and rinsed with distilled water after which the hand auger is advanced into the ground for sample collection. Upon achieving the desired depth, the hand auger is retrieved from the subsurface and the sample collected from the bottom of the hand auger to ensure native material and a measured depth. Following collection, the sample is transferred to an appropriate pre-cleaned sample jar for packaging and delivery to the laboratory in an ice-filled cooler for analysis under a chain-of-custody.

Results of surface soil sampling were submitted to the City of Richmond in an abbreviated Phase II ESA dated September 2, 2016.

5.2.2.2 Soil Sample Collection by Geoprobe®

Soil sampling activity completed using a Geoprobe® was accomplished using a 2-inch diameter by five-foot long continuous Macrocore sampler in accordance with the following protocol:

Prior to advancement into the subsurface, the continuous core sampler is washed in a Liqui-Nox® solution and rinsed with clean water after which a new acetate liner is inserted into the sampler. The sampler is then positioned beneath the drive head of the Geoprobe® and advanced into the subsurface to the desired depth. Upon attaining the desired depth, the continuous core sampler is withdrawn from the subsurface for sample retrieval at which time the cutting shoe is unthreaded from the continuous core sampler and the filled acetate liner separated from the cutting shoe. The acetate liner is then opened to enable access to the soil sample for inspection and collection.

Upon accessing the collected sample, site personnel inspected the soils, noting the physical properties of the material and visually identifying the presence of any suspect environmental contamination.

5.3 Groundwater Monitoring Well Installation

Following the collection of soil samples through direct push technology, one of the completed borings was converted to a groundwater monitoring well to facilitate the collection of samples for laboratory analysis of suspected dissolved phase contaminants.

5.3.1 Rationale for Monitoring Well Placement

A monitoring well (MW-28.1) was installed on the East Main Street parcels in suspected conjunction with prior investigation of Fulton Gas Works. Its location is also optimal for evaluating groundwater conditions and the potential for interaction with the proximal sewer lines (Appendix A). Conversely, MW-29 was installed on the East Main Street parcels in association with the assessment of FGW and accordingly placed to evaluate groundwater conditions upgradient. Monitoring well MW-29 continues in its intended capacity to provide a means for evaluating upgradient groundwater conditions and the potential for contaminants to be migrating toward the East Main Street parcels from offsite.

5.3.2 Monitoring Well installation by Geoprobe®

Based on the extent of investigation of the FGW parcel, only one direct push boring (MW-29) was converted to a groundwater monitoring well on the East Main Street parcels as this location was considered upgradient to the measured concentrations more directly associated with FGW. The 1-inch diameter monitoring well was constructed using flush-joint threaded sections of schedule 40 polyvinyl chloride (PVC) pipe as indicated by the well diagram presented in Appendix D.

In construction, the 1-inch diameter well was backfilled with washed sand to an approximately one-foot below grade with the remaining annulus backfilled with hydrated granulated bentonite to form a seal at the surface. The well head was set above grade and capped with a non-locking PVC slip-cap.

5.4 Groundwater Gauging/Sampling

At the beginning of groundwater sampling procedures, each monitoring well was first gauged with a groundwater interface probe and/or an oil-water interface probe to measure the depth to groundwater and/or evaluate the presence of free-phase hydrocarbons on the water table. After each instance of gauging, the probes were cleaned in a solution of Liqui-Nox®/distilled water and rinsed with distilled water to prevent cross-contamination between the wells.

5.4.1 Rationale for Groundwater Sampling

Groundwater samples were collected from the monitoring wells to coincide with the collection of deep soil samples in evaluating the presence of contaminants identified by reviewed resources, as well as those recommended by DEQ, as being common to manufactured gas plant sites. Groundwater sampling was perceived to be necessary after consulting the conceptual site model, as contamination via the subsurface aquatic environment was perceived to be possible (Appendix B).

5.4.2 Monitoring Well Purging

Prior to collecting groundwater samples, each monitoring well was purged of a minimum of three (3) well volumes, or until dry, using a 2-inch submersible pump or bailer for MW-28.1 and a peristaltic pump or bailer for MW-29. The required purge volumes for each monitoring well were calculated based on the height of the water column and the well diameter. At the start of purging, pH and temperature were additionally measured as a benchmark from which groundwater stability was measured prior to sample collection. As with the well development discharge, all purge water was contained in appropriately-labeled liquid waste drums and temporarily stored on-site, pending permanent disposal. Groundwater samples were not collected until the monitoring wells recovered to at least 95% of their initial water level.

5.4.3 Groundwater Sampling

5.4.3.1 Groundwater Sampling Using a Submersible Pump

Monitoring well MW-28.1 was first sampled using a 2-inch diameter Grundfos submersible pump fitted with 3/8-inch diameter polyethylene tubing and subsequently sampled using a 1.5-inch diameter by three feet long polyethylene bailer. In accordance with standard procedures, a minimum of three well volumes was purged prior to sample collection after which discharge was reduced to low-flow conditions. Water quality parameters were measured at the advent of purging and prior to sample collection to ensure groundwater stabilization. The sample was collected directly from the pump discharge tubing.

5.4.3.2 Low Flow Sampling with a Peristaltic Pump

Monitoring well MW-29 was sampled using a peristaltic pump fitted with silicone and low density polyethylene tubing or a 0.75-inch by three feet long polyethylene bailer. As with MW-28.1, the well was purged prior to sample collection after which discharge was reduced to low-flow conditions. Likewise, water quality parameters were measured at the advent of purging and prior to sample collection to ensure groundwater stabilization, and the sample containers were filled directly from the pump discharge tubing.

5.4.3.3 Groundwater Sampling Using a Bailer

In collecting groundwater samples with a bailer, three well volumes were first purged from the well after which groundwater samples were drawn directly from the bailer.

5.4.3.4 Aquifer Testing

Timmons Group previously conducted a one-well aquifer test on January 18, 2017 using a 4-inch diameter monitoring well located on the Fulton Gas Works property less than 450 feet from the southernmost boundary of the East Main Street parcels (Appendix E). The monitoring well was chosen for the aquifer test prior to the removal of the East Main Street parcels from the VRP listing for FGW based on its construction details, location, and general observations about the direction of groundwater flow. Plus, the monitoring well was determined to be positioned within native/in-situ soils that, compared to the East Main Street Parcels, can be expected to exhibit the same geologic and hydrogeologic character. Furthermore, the selected monitoring well demonstrated comparatively lower levels of contamination than the majority of the available wells which simplified the pumping conditions and management of the discharge water.

The aquifer test was completed as a groundwater recovery test based on a greater reliability in data quality, compared to pumping/drawdown tests, as recovery occurs at a constant rate and is not influenced by the erratic fluctuations that can be characteristic of pumping. Furthermore, drawdown in a pumped well has been shown to be influenced by well loss and well-bore storage which can skew the resulting data.

The construction details and pre-test measurements for the selected monitoring well are as follows:

- Monitoring well diameter = 4 inches
- Total length of casing = 20 feet
- Screen length = 15 feet
- Casing below grade = 16.36 feet
- Casing above grade = 3.62 feet
- Depth to groundwater = 6.03 feet
- Position of water table below grade = 2.41 feet
- Height of water column in well = 13.97 feet

The pumping action of the aquifer test was completed using a two-inch diameter Grundfos submersible pump fitted with 3/8-inch polyethylene tubing. Groundwater data was collected using a Solonist® Levelogger

downhole transducer that was preprogrammed to measure water table recovery according to the following schedule:

- Initial water level reading
- 30 seconds for five minutes = 10 readings
- one-minute for 15 minutes = 15 readings
- five minutes for 30 minutes = 6 readings
- 30 minutes for two-hours = 3 readings

The submersible pump was positioned at a calculated depth that was five feet above the bottom of the well while the Levellogger was placed in the bottom of the well so that sufficient starting head value would be able to be reflected by the recovery record. In addition to the Levellogger readings, groundwater recovery levels were also measured manually as backup using a groundwater interface probe.

Drawdown of the well occurred at a nearly constant rate for approximately 20 minutes at which time the water level was maintained to create steady state conditions. After gaining confidence in the steady-state conditions, pumping was discontinued and the test began.

5.5 Surface Water Sampling

Surface water sampling was not completed in association with this site characterization investigation. Previous studies completed by others included the collection of surface water samples from Gillies Creek both upstream and downstream of FGW for which the results showed no influx of contamination. The conceptual site model did not immediately indicate the need for surface water sampling.

5.6 Combined Sewer Sampling

Timmons Group collected water samples from the combined sewer outfall (CSO) at two manholes located upgradient and in-line with the pipeline segment that extends across (former) Fulton Gas Works site and continues across the southern extent of the collective East Main Street parcels (Appendix A). One of the manholes is located north of FGW across Williamsburg Avenue and the other is the Bloody Run intercept chamber located south of FGW and the railroad trestle at the southeastern corner of the East Main Street parcels (Appendix A).

5.6.1 Rationale for Sampling the Combined Sewer

Based on the construction details of the CSO piping in conjunction with the subsurface characteristics of the site and surrounding area, the sewer piping is submerged below the static level of the surficial water table. As detailed by City of Richmond utility mapping in conjunction with recent observations, the primary flow route is constructed of a combination of 15-inch to 66-inch diameter brick and 18-inch diameter concrete piping all of which are pitched for gravity flow. Under normal flow conditions, as was experienced during the recent sampling event, water within the piping maintains a depth of approximately three to four inches. As such, the increased external hydrostatic pressure imposed by the surficial water table creates a potential for groundwater infiltration into the pipelines thus creating a scenario for potential contaminant infiltration and therefore downgradient migration. Accordingly, as per the conceptual site model, sampling the combined sewer is necessary to evaluate the infiltration and migration potential of contaminants.

5.6.2 Sewer Sampling

Water specimens were collected as grab samples using a plastic bucket fixed to a synthetic lanyard. Prior to sample collection, the bucket was cleaned with a Liqui-Nox® solution and triple rinsed with distilled water. For each sample, personnel wore clean, disposable nitrile gloves to minimize the introduction of any bias. Collected samples were likewise retained in appropriate, commercially prepared/sterilized containers that were provided by the contracted laboratory. Furthermore, all samples were packed according to method

requirements and upon sealing were appropriately labeled and preserved for transportation to the laboratory for analysis.

5.7 Analytical Methodology

Air Water and Soil Laboratories (VELAP ID: 460021 – Appendix F) performed all analyses for this project. Media samples were analyzed according to methods detailed in the table on the following page according to the EPA SW-846 Compendium.

TABLE 3: Analytical methodology per analyte

Media	Contaminant Group	Analyte	Analysis Method	
Soil	VOCs		SW8260B	
	SVOCs		SW8270D	
	PPL Metals	Antimony Arsenic Beryllium Cadmium Chromium Copper Lead Nickel Selenium Silver Thallium Zinc		SW6010C
		Mercury		SW7471B
	Cyanide		SW9012	
	Pesticides		SW8081B	
	PCBs	Aroclor		SW8082A
	Groundwater ⁽¹⁾	VOCs		SW8260B
SVOCs			SW8270D	
		2,3,7,8-TCDD (SIM)		EPA625
PPL Metals		Arsenic Beryllium Cadmium Chromium Copper Lead Nickel Silver Zinc		EPA200.7, EPA 200.8, SW7010
		Antimony Selenium Thallium		SW7010 EPA200.8 R5.4
		Mercury		EPA245.1
		Cyanide		SW9012
Hexavalent Chromium			SW7196A	
Herbicides			SW8151A	
Pesticides			SW8081B	
PCBs		Aroclor		SW8082A

(continued)

TABLE 3: Analytical methodology per analyte (Continued)

Media	Contaminant Group	Analyte	Analysis Method
Groundwater ⁽²⁾	VOCs		SW8260B
	SVOCs		SW8270D
		2,3,7,8-TCDD (SIM)	EPA625
	TAL Metals	Aluminum Barium Beryllium Calcium Cadmium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Silver Vanadium Zinc	SW6010C
		Arsenic Antimony Selenium Thallium	SW6020A
		Mercury	SW7470A
		Cyanide	SW9012
		Hexavalent Chromium	SW7196A
	Herbicides	SW8151A	
	Pesticides	SW8081B	

Notes: (1) groundwater samples collected on 10/25/2016 (MW-28.1) and 12/1/2016 (MW-29)
 (2) groundwater samples collected on 11/13/2017 with follow-up on 11/17/2017

Based on the nature and extent of contamination across the Site, limitations in the analytical procedures became apparent throughout the investigative process. Sample dilutions were necessary in some cases to complete analyses, which influenced the limit of quantification and limit of detection for some samples. Ultimately, the minimum detection limit (MDL) was compared to VRP screening levels. However, for some parameters, the minimum, attainable quantification levels were beyond the conservative VRP screening levels (possible Type II error). These instances were cataloged for the soil and groundwater data and are presented in Appendix G.

5.8 Analytical QA/QC

To complement field quality assurance techniques, a quality control plan to ensure and assess data validity was established for the analytical portions of work completed. In addition, samples were analyzed by a VELAP accredited laboratory using EPA-certified methods.

It should be reiterated that the soil and groundwater samples collected from SB-28, MW-28.1 and SB/MW-29 were purposed in the larger scheme of characterizing the eastern adjoining FGW property, so their analysis was subject to the QA/QC program for the overall sampling suite.

For several analytes, duplicate analyses were completed for the same compound as a result of the overlap between standard VOC and SVOC analyte lists. With data quality objectives in mind, the decision was made to use VOC results (using EPA Method 8260B) in cases of duplicate analyses, as this method is the standard methodology for sample analysis and offered better recovery. SVOC analysis proceeded using EPA Method 8270D, which is more commonly used in wastewater and solid waste analysis. Within the comprehensive sampling suite, as related to FGW especially, heavy oils/compounds created interference that specifically affected SVOCs analyses and led to less precise results.

Details of analytical methods by parameter are found on the following page.

Field Duplicate Samples: Field duplicate samples were collected at a rate of one per sample collection method. The purpose of field duplicate samples is to evaluate laboratory performance by comparing the analytical results of two samples from the same location.

Laboratory Quality Control Samples: Three types of laboratory QA samples were collected during the sampling event: trip blanks, matrix spike/matrix spike duplicates (MS/MSD) samples, and temperature blanks.

- **Trip Blank Samples** - Trip blanks are filled with analyte-free water by the laboratory, and remain unopened in the cooler during the sampling event. The 40 milliliter (ml) vials can help identify widespread contamination through transport or environmental exposures.
- **Matrix Spike/Matrix Spike Duplicates (MS/MSD)** - MS/MSD samples are collected as required by the laboratory to indicate sample matrix effects on the preparation and measurement methodology. MS/MSD samples are spiked samples analyzed by the laboratory to identify effects of the particular matrix of interest on analytical results. Sample volumes will be collected for MS/MSD samples to be prepared for analysis at a rate of 5 percent, or one per sampling event, whichever is more frequent.
- **Temperature Blanks:** Temperature blanks are 40 ml vials that are filled with deionized water, and are included in the sample cooler. They are transported to the field and the laboratory along with collected samples and are used to measure equivalent sample temperature upon arrival at the laboratory.

6.0 INVESTIGATIVE RESULTS

6.1 Subsurface Characteristics

6.1.2 Boring Logs

Detailed soil boring (SB) logs for SB-28 and SB-29 are included as Appendix C. Because these logs were recorded during soil sampling efforts using a Geoprobe® continuous Macrocore sampler, they offer a comprehensive record of the materials encountered from surface grade to the completion depth of the borings. For each boring, a soil description, comments, and depth to water are noted; however, some material loss and/or compaction occurred during sample collection.

The resulting soil descriptions generated by this exercise provide insight as to the composition and texture of the underlying soils, but more importantly details as to the occurrence of contamination within the subsurface horizons. For example, contamination was observed not only in the subsurface above confining layers but was also seen to exist within clay layers as noted for SB-28.

6.1.3 Groundwater Elevation Data

Depth to groundwater measurements were collected from the two wells installed on the East Main Street parcels and compared to the groundwater elevation map previously prepared for FGW to aid in understanding potential seasonal and tidal influences that may be factors at the Site. The resulting information, used in conjunction with USGS topographic data, increased the resolution of depicting the direction of groundwater flow beneath the site. As identified, the understanding of site hydrogeology shifts from the results of previous studies which indicated a southwesterly groundwater flow toward the James River, to a more southerly direction towards the natural channel of Gillies Creek (Appendix A).

6.1.5 Aquifer Test

The aquifer test results were analyzed using the Neuman solution method offered by Aqtesolv (HydroSOLVE, Inc.) which accounts for the following conditions:

- aquifer has infinite areal extent,
- aquifer is homogeneous and of uniform thickness,
- control well is fully or partially penetrating,
- aquifer is unconfined with delayed gravity response,
- flow is unsteady,
- diameter of a pumping well is very small so that storage in the well can be neglected.

The test results produced a hydraulic conductivity value (K) of 0.5909 ft/day which is much less than the lateral K values identified in Section 4.2 (Hydrogeology) for the aquifers that have been determined to lie beneath the site but also significantly above the identified lateral and vertical K values for the associated confining units. Transmissivity was measured at 8.254 ft²/day.

6.2 Analytical Results

6.2.1 Soil Data

6.2.1.1 Surface Soil Samples

A total of thirteen soil samples were collected from across the site a depth range of 0-2 feet below grade for analysis of metals with shallow soils from SB-28 and SB-29 also being analyzed for PCBs and pesticides. The results yielded the detectable concentrations of the following analytes:

- | | |
|------------|-------------|
| • Aluminum | • Lead |
| • Arsenic | • Manganese |
| • Barium | • Mercury |
| • Cadmium | • Nickel |
| • Chromium | • Vanadium |
| • Copper | • Zinc |
| • Iron | |

Of the measured results, three arsenic, ten iron, and one vanadium concentration(s) exceeded VRP Tier 2 Residential Screening Levels (Appendix H). Also, aluminum concentrations were measured above the method baseline detection-level with unknown upper limits toward VRP Tier 2 and/or Tier 3 Screening Levels; accordingly, the results for aluminum are inconclusive.

Surficial soil samples collected during the completion of the comprehensive study of the eastern-adjacent FGW were analyzed for chromium concentrations in the form of total chromium (by Method SW6010C) and hexavalent chromium (by Method SW7196). The results for hexavalent chromium for all of the collected samples indicated levels below the respective method detection limits. Based on the absence of hexavalent

chromium, all additional soil samples associated with the assessment of both FGW and the East Main Street parcels were analyzed for total chromium only. Of the collected samples, none exceeded the Tier 2 screening level of 3 mg/kg for total chromium. A Tier 3 screening level for total chromium does not presently exist.

Contaminant maps depicting the spatial distribution of metals concentrations within surface soils are included as Appendix I.

6.2.1.2 Subsurface Soil Samples

Subsurface samples were collected from two locations on the East Main Street parcels; however, aside from metals concentrations that were measured in the surficial samples at those locations, as detailed in Section 6.2.1.1, no other analytes were detected (Appendix H).

6.2.2 Groundwater Data

To date, the monitoring wells located on the East Main Street parcels (MW-28.1 and MW-29) have been sampled twice by Timmons Group from which the following analytes were detected:

- Aluminum
- Arsenic
- Barium
- Cadmium
- Calcium
- Chromium
- Cobalt
- Copper
- Cyanide
- Iron
- Lead
- Magnesium
- Manganese
- Mercury
- Methylene Chloride
- Naphthalene
- Nickel
- Potassium
- Pyrene
- Selenium
- Sodium
- Vanadium
- Zinc

The first set of samples was collected in late summer/early fall of 2016 and reflected measurable concentrations of: arsenic, chromium, copper, cyanide, lead, mercury, methylene chloride, naphthalene, nickel, pyrene, and zinc. The second set of samples was collected in late fall 2017 and reflected measurable concentrations of: aluminum, arsenic, barium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, selenium, sodium, vanadium, and zinc.

The dissolved phase concentrations of arsenic, lead, and naphthalene measured in the groundwater samples collected from MW-28.1 and MW-29 were above VRP Residential Tier 2 screening levels. Mercury was measured in MW-29 above Residential Vapor Intrusion Tier 3 and likewise industrial Vapor Intrusion Tier 3 screening levels. Mercury and naphthalene concentrations measured in MW-29 also exceeded Construction Worker Tier 3 screening levels.

A selected subset of contaminants and corresponding regulatory levels for each sampling location have been tabulated and are presented in Appendix H which likewise includes the laboratory report.

6.2.3 Combined Sewer Sampling

Two upgradient water samples were collected from sewer manholes associated with the main trunkline of the CSO that extends across the southern extent of the collective East Main Street parcels (Appendix A). The collected samples were analyzed for concentrations of SVOCs using EPA Method 8270 (Appendix H) from which the results yielded the detectable concentrations summarized on the following page.

- Benzoic Acid
- Benzyl alcohol
- Bis (2-Ethylhexyl) phthalate
- Diethyl phthalate
- Di-n-octyl phthalate
- Naphthalene

7.0 INTERPRETATIONS

The analyses of soil and groundwater samples indicate the presence of surface and subsurface contamination on the East Main Street parcels in the form of adsorbed and dissolved phase metals concentrations and dissolved phase concentrations of VOCs and SVOCs. A discussion on the potential for contaminant migration may be speculative based on a limited number of data points associated with this investigation, but the potential that observed concentrations may have originated from offsite sources seems apparent.

One suspected source area for the East Main Street Parcels is the elevated railroad trestle. As previously described, the combustion of coal in addition to the associated particulate fallout from coal burning/diesel-powered locomotives, the weathering of the railroad trestle, and the windborne dispersion of coal dust from open rail cars collectively serve as potential sources of surface contamination from which precipitation provides a mechanism for dissolution and infiltration through the soil horizons into the water table aquifer.

Though measured soil and groundwater concentrations are suspected to originate from railroad operations, the proximity of the parcels to FGW may also contribute to quantified levels. Operational effects from coal gasification as well as the direct application of process wastes is an additional suspected source for the East Main Street Parcels. As operations at FGW ceased approximately six decades ago, the continued operation of the railroad, which separates the East Main parcels from FGW, constitutes an ongoing potential source of contamination.

The source(s) of measured analytes are detailed in the table below, which coincides with the Conceptual Site Model (included as Appendix B). A detailed discussion is included in Section 7.1.1 below.

TABLE 4: Potential sources of detected analytes

Measured Analytes	Media	Source Area	Sourcing processes
Metals	Surface Soils	Railroad	<ul style="list-style-type: none"> • Stack emissions • Weathering of chromium copper arsenate (CCA) preserved railroad ties • Weathering of railroad trestle superstructure
Metals	Groundwater	Railroad	<ul style="list-style-type: none"> • Leaching of soils impacted by metals
VOCs/SVOCs	Groundwater	Railroad	<ul style="list-style-type: none"> • Weathering of creosote-preserved railroad ties
Metals	Surface Soils	FGW	<ul style="list-style-type: none"> • Remnant deposits from coal combustion
Metals	Groundwater	FGW	<ul style="list-style-type: none"> • Leaching of soils impacted by metals
VOCs/SVOCs	Groundwater	FGW	<ul style="list-style-type: none"> • Leaching and migration of deposited process wastes

It should be further noted that the measured surface soil concentrations that exceeded the VRP Tier 2 Screening levels for arsenic, iron, and vanadium are considered to reflect the naturally occurring/higher levels of these metals in the project area and vicinity. According to Shacklette and Boerngen (1984), elemental background levels in soils and other surficial materials within the Central Virginia region are known to have naturally occurring levels that exceed the Tier 2 screening levels as specified below:

TABLE 5: Naturally occurring background levels of metals in central Virginia

Metal	Residential Tier 2 Screening Level	Naturally Occurring Concentration*
Arsenic	3.5 mg/kg	4.1 mg/kg
Iron	5,500 mg/kg	15,000 mg/kg
Vanadium	39 mg/kg	30-50 mg/kg

* Source: Shacklette and Boerngen, 1984

7.1 Soil Data

Samples collected from the East Main Street parcels were screened to identify site-specific COPCs by comparing the measured soil contaminants and the minimum detection limits for analytes measured below detection were compared to VRP Tier 2 and 3 screening levels. The results are listed in Table 6 below.

TABLE 6: Soil COPCs

1,1,1,2-Tetrachloroethane	4-Nitroaniline	Diphenylamine
1,1,1,2-Tetrachloroethane	7,12-Dimethylbenz (a) anthracene	Hexachlorobenzene
1,1,2-Trichloroethane	Aluminum	Hexachlorobutadiene
1,1-Dichloroethane	Aniline	Hexachlorocyclopentadiene
1,1-Dichloroethylene	Antimony	Hexachloroethane
1,2,4,5-Tetrachlorobenzene	Arsenic	Iron
1,2,4-Trimethylbenzene	Benzene	Isophorone
1,2-Dibromoethane (EDB)	Benzidine	Methyl methanesulfonate
1,2-Dichloroethane	Benzo (a) anthracene	Naphthalene
1,2-Dichloropropane	Benzo (a) pyrene	Nitrobenzene
1,2-Diphenylhydrazine	Benzyl alcohol	n-Nitrosodimethylamine
2,3,4,6-Tetrachlorophenol	bis (2-Chloroethoxy) methane	n-Nitrosodi-n-butylamine
2,4-Dichlorophenol	bis (2-Chloroethyl) ether	n-Nitrosodi-n-propylamine
2,4,-Dimethylphenol	Bromobenzene	n-Nitrosopiperidine
2,4-Dinitrophenol	Bromochloromethane	PCB as Aroclor 1221
2,4-Dinitrotoluene	Bromodichloromethane	PCB as Aroclor 1232
2,6-Dinitrotoluene	Bromoform	PCB as Aroclor 1254
2-Chlorophenol	Bromomethane	p-Chloro-m-cresol
2-Hexanone (MBK)	Carbon tetrachloride	Pentachlorophenol
2-Methylnaphthalene	Chloroform	Phenacetin
2-Naphthylamine	Chloromethane	Pyridine
2-Nitroaniline	Dibenz (a,h) anthracene	Tetrachloroethylene (PCE)
3,3'-Dichlorobenzidine	Dibenzofuran	Thallium
3-Methylcholanthrene	Dibromochloromethane	Vanadium
4-Aminobiphenyl	Dibromomethane	Vinyl acetate
4-Chloroaniline		

Further analysis revealed that the majority of exceedances are associated with compounds not detected as a result of analysis but whose detection limits were above the VRP screening levels.

As previously described, the measured metals concentrations in the collected soil samples reflect surface concentrations only. Soil samples collected from two locations at depth on the East Main Street Parcels did not produce measurable concentrations across the suite of analytes. Though reviewed, results from previous studies could not serve as a basis for comparison in contrast to recent measurements.

7.1.1 Dispersal/Deposition of Soil Contaminants

The suspected sources of soil contamination observed on the East Main Street parcels include railroad sources and the adjacent FGW.

Sourcing from the Railroad

In reviewing the dispersion of measured metals concentrations across the site that exceeded Tier 2 and Tier 3 VRP standards, no discernable patterns are evident. The deposition of metals concentrations onto surface soils may be attributed in-part through stack emissions from historic coal-fired steam locomotives, and partially from the current operation of diesel-powered locomotives. Furthermore, as rail traffic in the corridor includes coal transportation by open-top rail cars, the dispersion of coal dust likewise presents a contributing source of surficial heavy metal deposition in the area surrounding the railroad trestle, as does the leachate that drains from rail cars during rain events (Ahearn, 2013). In association with railroad operations, the elevated trestle and corresponding rail traffic is a potential factor to the widespread dispersal of airborne contaminants.

The weathering of the railroad trestle also serves as a potential source of metals in addition to railroad tie preservatives including creosote and CCA (Brooks, 2004).

Sourcing from (Former) Fulton Gas Works

Although inactive since the 1950's, studies of FGW show that its operation introduced soil contamination that presently exists in concentrations that exceed VRP Tier 2 and Tier 3 screening levels. Accordingly, expectations are that peripheral/historic and widespread deposits of airborne particles containing heavy metals may have a contributing effect to the measured concentrations on the East Main Street parcels.

Similarly, the former deposition of process wastes at FGW serves as a potential source for VOCs and SVOCs from which subsurface migration may have occurred. However, based on surface topography and available groundwater elevation data, the East Main Street parcels are largely upgradient from FGW. As a result, the extent and potential effects of on-site migration from FGW are anticipated to be limited to the southeastern corner of the southernmost East Main Street parcels.

7.1.2 Infiltration/Migration of Surface Contaminants

Precipitation events within the source areas serve as a mechanism by which surface contaminants may infiltrate and percolate through the soil horizons with eventual dissolution into the surficial water table aquifer. Once in solution, contaminants may migrate under the influence of hydraulic gradients or preferentially through subsurface utility trenching. Likewise, the direct exposure of process wastes to a saturated subsurface environment by burial serves as a method for the direct introduction of contaminants to the local aquifer systems.

7.2 Groundwater Data

As with the soil results, a number of analytes that were detected within the collected groundwater samples were screened against VRP levels to identify the COPCs. A comparison of the detected analytes, as well as the minimum detection limit for analytes measured below detection, were compared to VRP Tier 3 screening levels for Residential Vapor Intrusion, Industrial Vapor Intrusion, and Construction Workers.

Based on the city-wide restriction by statute of sourcing groundwater within the Richmond city limits, in addition to the potential for the implementation of institutional controls through a groundwater use restriction, a comparison to Tier 2 screening levels was dropped from consideration.

TABLE 7: Groundwater COPCs

1,2,4-Trichlorobenzene	Benzidine	Naphthalene
1,2,3-Trichloropropane	Dichlorodifluoromethane	n-Nitrosodimethylamine
1,2,4,5-Tetrachlorobenzene	Hexachlorobenzene	PCB as Aroclor 1254
3-Methylcholanthrene	Hexachlorocyclopentadiene	
7,12-Dimethylbenz (a) anthracene	Mercury	

As with the soil analytical results per Section 7.1, the majority of COPCs are from compounds not detected as a result of analysis, but whose detection limits were above the VRP screening levels.

7.2.1 Potential Migration of Groundwater Contaminants

The movement of contamination within the water table depends on multiple factors, including the contaminants' dispersivity, sorptivity, rate of volatilization, and progression of abiotic and biotic transformations. A full picture of subsurface interactions between contaminants, groundwater, and the surrounding environment may best be understood through modeling; here, a more simplistic presentation of the contaminants quantified in the subsurface and their locations are presented in Section 7.4.

7.3 Sewer Data

With exception of naphthalene, the CSO sampling results indicate the transportation of SVOCs from upgradient sources that are a combination of naturally occurring compounds and plasticizers which likely have no affiliation with FGW or its historic operation. The data further reflect a reduction in concentrations through the CSO as flow occurs across FGW. Meanwhile, the measured concentration of naphthalene in (only) the downgradient sample is a potential indicator of groundwater infiltration from FGW into the CSO.

7.3.1 CSO Interaction with East Main Street Parcels

The CSO currently extends southward across FGW through a brick conduit and enters the Bloody Run intercept chamber south of the boundary for the East Main Street parcels. Under normal flow conditions, water turns northwestward from the Bloody Run intercept chamber for approximately 40 feet and enters a manhole located at the southeastern corner of the East Main Street parcels. From the second chamber, flow turns westward and continues across the southernmost of the East Main Street parcels through 18-inch diameter concrete piping that connects to the CSO main beneath East Main Street. During heavy storm events, overflow is diverted southeastward from the Bloody Run intercept chamber and discharges directly to Gillies Creek.

North and west of FGW, a 12-inch-diameter terra cotta conduit extends southward along the South 32nd Street roadway easement before entering a manhole that directs flow southward toward the brick conduit that discharges to the Bloody Run intercept chamber. During heavy storm events, overflow is carried from the 12-inch conduit through the manhole to an 18-inch diameter conduit that continues along the South 32nd Street easement and discharges to the main that extends beneath East Main Street.

Any prospective structural development of the East Main Street properties and associated service lines to the sewer system would extend westward toward the main located beneath East Main Street thereby having minimal interaction with CSO flow from FGW.

According to the City of Richmond Department of Public Works, future plans call for the replacement of the Bloody Run intercept chamber with a new interceptor that will be placed on the FGW property with a tie-in

to the manhole located at the southeastern corner of the East Main Street parcels. Overflow during heavy storm events will continue to be carried through the existing pipe that discharges to Gillies Creek.

7.4 Site Summary

A cross-section generated across the East Main Street parcels offers a means of further understanding the interaction between the surface, groundwater, and contamination present within the subsurface (Appendix J). In the diagram, groundwater flow is interpreted from the elevation of both the surface and groundwater tables, and the presence/absence of contamination is shown in the soil and groundwater.

Since the study of the East Main Street Parcels originated from the broader study of neighboring (former) Fulton Gas Works, naphthalene and benzene were likewise selected for analysis within the cross sections based on their predetermined presence across Fulton Gas Works and their differing characteristics. Examining their occurrence across soil and groundwater samples facilitated interpretation with respect to elevation, groundwater flow, and mobility. For two of the three utilized cross-section sampling locations, one of which is from a previous study, naphthalene was present in the dissolved phase only, which implies transport from an offsite source. However, based on downgradient location relative to Fulton Gas Works and the bordering railroad trestle, naphthalene concentrations would likewise be expected in MW 28.1 which to date have not been detected.

As was determined to be the case with Fulton Gas Works, the presence/absence of naphthalene largely occurred in conjunction with benzene, which is not reflected in the East Main Street results albeit with a data set of limited size. Regardless, the further absence of higher molecular weight compounds in the East Main Street groundwater record supports the findings of the (former) FGW study by suggesting that PAHs are less mobile through the subsurface, and lower molecular-weight compounds have greater mobility from the source area. However, this conclusion assumes that the measured groundwater concentrations are sourced from Fulton Gas Works operations which is presently inconclusive considering the prospect of additional sources and the comparative variation among the detected analytes.

The FGW facility, through its normal operations and standard practices for the day, generated high molecular weight hydrocarbons that were disposed of on-site according to conventions of the time. Field observations and analytical results confirmed that their widespread presence within the subsurface continues at FGW approximately 60 years after discontinued operations. Given the chemical characteristics of these compounds and the subsurface environment in which they reside, many remain somewhat stable and stationary. Within the boundaries of FGW, the presence of heavy compounds in the soils and the presence of mid-weight and lighter-weight compounds in the groundwater suggests that the source material remains primarily on-site. Indeed, the presence of original source material (i.e. coal tar) has been observed in multiple locations across FGW. Some migration of source material through the subsurface was observed south of the Main Street parcels, correlating to the direction of groundwater flow, but the area in which free product was observed seems to be contained and/or non-migrating toward the East Main Street parcels.

7.5 Selection of Potential Exposure Pathways

Short- and long-term uses are being discussed; no use restrictions are currently being considered. Accordingly, VRP Tables 3.1a and 3.1b were completed to evaluate potential routes of exposure and assess qualitative risk as applied to populations of: residents, construction workers, commercial/industrial users, and recreational/trespasser/visitors relative to the results of this SCR (Appendix K).

7.5.1 On-site Exposure Pathways

Groundwater

Based on Richmond city ordinance, groundwater usage is restricted within the Richmond city limits which eliminates all routes of exposure for residents and commercial/industrial users with the exception of indoor air inhalation. Construction workers maintain the potential for exposure by way of dermal contact,

(accidental) ingestion, and vapor inhalation. However, given an average depth to groundwater of 11 feet in the vicinity of MW-28.1 (i.e., the area of scheduled construction to replace the Bloody Run interceptor), the most likely groundwater exposure route for construction workers may likewise be inhalation.

Surface Water

The site is absent of surface water bodies.

Soil

Each population of residents, trespasser/visitors, construction workers, and commercial/industrial users could experience the full array of exposure through dermal contact, ingestion and/or inhalation. The emphasis of study for this investigation was surficial concentrations of heavy metals as a means of direct exposure vs. subsurface concentrations.

Sediments

The site is absent of sediment deposits.

7.5.2 Offsite Exposure Pathways

Groundwater

The same conditions that apply to on-site exposure extend to offsite exposure pathways, whereby the restriction of groundwater usage within the City of Richmond eliminates all routes of exposure for residents and commercial/industrial users with the exception of indoor air inhalation. Likewise, construction workers maintain the potential for exposure by way of dermal contact, (accidental) ingestion, and vapor inhalation. However, as groundwater flows southwestward toward the James River, a drop in the water table is expected as topography abruptly drops from approximately 26 feet at East Main Street to 14 feet at Canal Street. Combined with the current/proposed uses of the downgradient adjoining parcels, exposure risks are anticipated to be qualitatively low.

Surface Water

The nearest body of surface water is the James River which is located approximately 300 feet west of the Subject Property. While the measured on-site concentrations could have a cumulative effect of contributing to local groundwater impact when considering the former industrial uses of the surrounding properties, the potential risks are anticipated to be low based on the concentrations measured during the course of this site characterization assessment. Furthermore, railroad operations along the elevated railroad trestle and the weathering of the trestle itself will continue to serve as sources of contaminants to the surrounding area.

Soil

Each population of residents, trespasser/visitors, construction workers, and commercial/industrial users could experience the full array of exposure through dermal contact, ingestion and/or inhalation based on the cumulative effect of surface and subsurface concentrations as mentioned above. However, based on the industrial history of the adjoining/downgradient properties in combination with current/proposed usage and the extent of the measured concentrations as compared to applicable VRP screening concentrations, the potential risks are anticipated to be qualitatively low. Furthermore, as stated above, railroad operations along the elevated trestle and the weathering of the trestle itself will continue to serve as sources of contaminants to the surrounding area.

Sediment

The erosion of surface soils has the potential, albeit remote based on topography, to enter Gillies Creek with subsequent deposition into the James River. Under this scenario, the resulting accumulation of

sediments could present a potential risk to recreational users/trespassers in addition to aquatic organisms. However, given the cumulative effects of the surrounding properties with direct and indirect discharges into Gillies Creek in conjunction with the measured concentrations in the surficial soils, the potential risks imposed by the East Main Street parcels are anticipated to be qualitatively low. The latter is especially applicable in considering the effects of railroad operations along the elevated trestle and the weathering of the trestle itself, which will continue to serve as sources of contaminants to the surrounding area.

8.0 SUMMARY AND RECOMMENDATIONS

According to the preliminary SCR for the (former) Fulton Gas Works, which describes the potential for contaminant migration and the relative immobility of contaminants, the prospect of FGW as a source area presents a minimal risk to the East Main Street parcels. The potential of a reduced risk from FGW is strengthened by surface and groundwater contours indicating only a small fraction of the East Main Parcels being subject to on-site migration from FGW. Therefore, the primary risks associated with the East Main Street parcels are resolved to surficial deposits of contaminants as detailed in Section 6.2.1.1. However, in comparison to naturally occurring soil background levels and VRP Screening Levels as detailed in Section 7.1.1, any perceived risks are further demonstrated to be reduced.

Based on the existing dataset for the East Main parcels, the primary exposure risks originate from surficial deposits that, through precipitation events, may dissolve and leach into the subsurface with a potential for further dissolution into the surficial water table with an additional potential for downgradient migration. The presence of surface contamination will be perpetuated by railroad operations across the adjoining trestle. If the property were to be graded and capped, the potential would exist for the re-introduction of contaminants through a combination of:

- Coal dust/coal leachate from in-transit open-top coal cars,
- Particulate matter from diesel locomotive emissions,
- Weathering of the railroad trestle, and
- General railroad operations.

Therefore, in the long term, any potential remnant impacts originating from FGW will be overshadowed and eventually surpassed by railroad operations in negatively affecting the environment, especially in considering the demolition and redevelopment of FGW as currently proposed.

Accordingly, risk mitigation should focus on blocking the exposure routes that can be maintained indefinitely with no disruption by continued sources of environmental impact. Therefore, Timmons Group recommends imposing a groundwater-use restriction on the property to be conveyed in perpetuity. Regardless, as referenced in Section 7.5.1 and 7.5.2, Section 28-388 of Richmond, Virginia – Code of Ordinance already restricts groundwater usage, in addition to stating:

“The owner of a premises in the city may drill a well and use the water for drinking purposes only, provided the well and the water are approved by the District Health Director”.

Water samples collected from the CSO indicated that naphthalene concentrations are being introduced into the waste stream across FGW and carried downstream toward the East Main Street parcels leading to the possibility of utility vapor concerns in the event of future construction. However, in communicating with DPU, any future service connections to proposed structures on the East Main Street parcels would be connected to the sewer main that extends beneath East Main Street therefore effectively connecting upgradient from the piping extending from FGW and reducing the potential for utility vapor migration.

As a means of minimizing potential indoor air risks, Timmons Group further recommends the incorporation of engineering controls into any prospective building design through the installation of a sub-slab vapor barrier and/or grade-level, open deck parking.

Based on the expectation of a low exposure risk and with the proposed use of institutional and engineering controls, Timmons Group recommends that the three parcels located along East Main Street be considered for issuance of a certificate of satisfactory completion of remediation based on the results of this SCR.

LIST OF PREPARERS

John T. Russell, AIPG CPG
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M.S. Geology, 1994 – Old Dominion University
B.S. Geology, 1988 – Virginia Tech

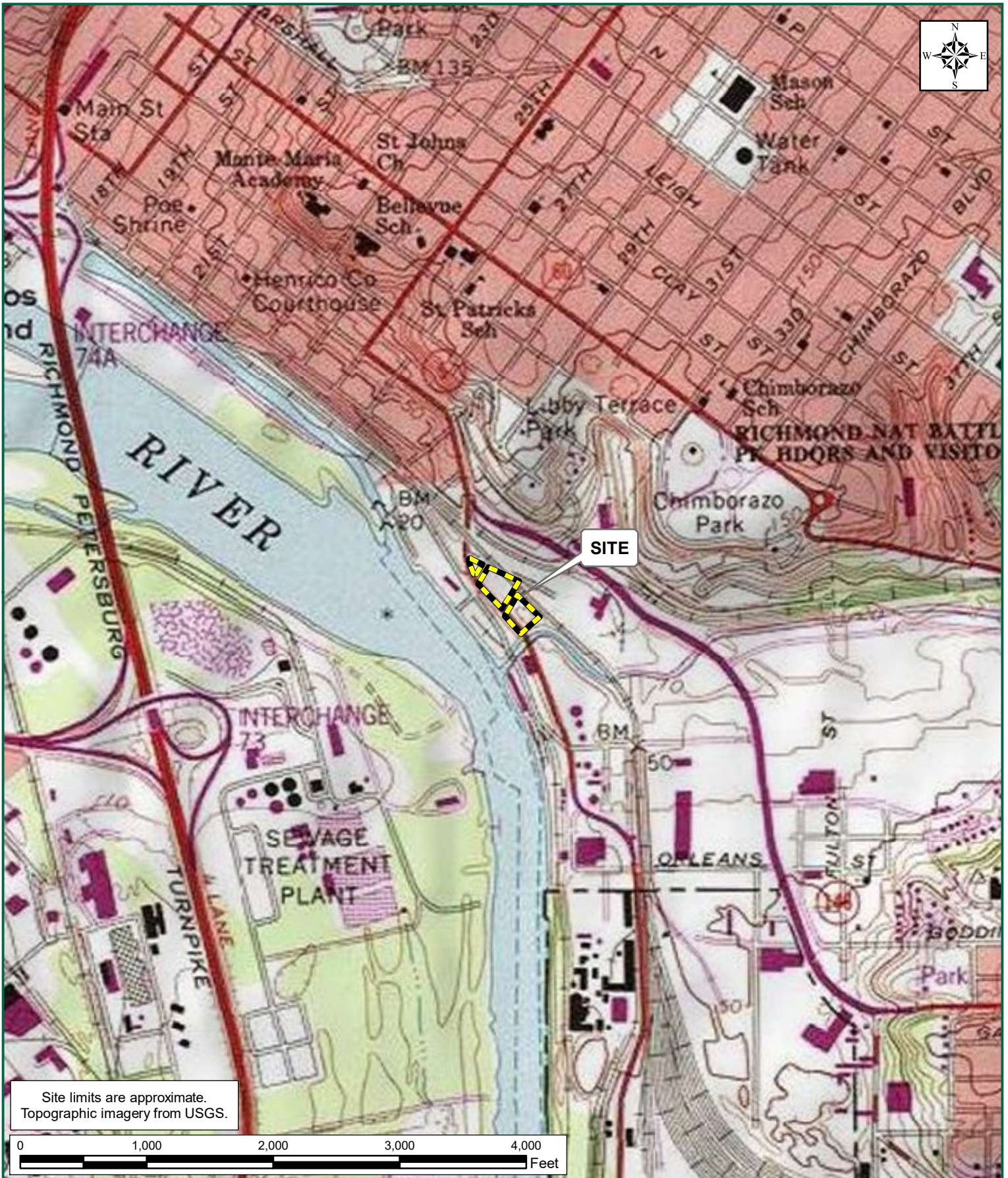
Julia Campus
Environmental Scientist
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B.S. Environmental Science, 2011 - Virginia Tech
Graduate Certificate, Biodegradation and Bioremediation, 2017 - University of Florida

REFERENCES

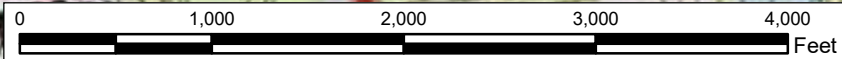
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<https://www.opb.org/news/article/coal-dusts-environmental-impacts/>
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APPENDICES

APPENDIX A
SITE MAPS



Site limits are approximate.
Topographic imagery from USGS.



FULTON GAS WORKS (E. MAIN ST PARCELS)
CITY OF RICHMOND, VIRGINIA
FIGURE 1: VICINITY MAP

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.


TIMMONS GROUP JOB NUMBER: 38393
PROJECT STUDY LIMITS: 2.4 ACRES
LATITUDE: 37° 31' 26.59" N
LONGITUDE: 77° 25' 3.28" W

U.S.G.S. QUADRANGLE(S): RICHMOND
DATE(S): 2013
WATERSHED(S): LOWER JAMES
HYDROLOGIC UNIT CODE(S): 02080206


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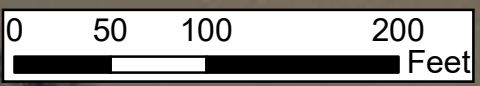
Legend

 Project Study Limits - VRP 00723

Contours

 10 Foot

 2 Foot



THIS DRAWING PREPARED AT THE
CORPORATE OFFICE
1001 Boulders Parkway, Suite 300 | Richmond, VA 23225
TEL 804.200.6500 FAX 804.560.7648 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS	
DATE	REVISION DESCRIPTION

DATE
01/29/2018

DRAWN BY
A. WILSON

DESIGNED BY
A. WILSON

CHECKED BY
J. RUSSELL

SCALE
1" = 100'

TIMMONS GROUP

FULTON GAS WORKS (E. MAINT ST PARCELS)
CITY OF RICHMOND, VIRGINIA

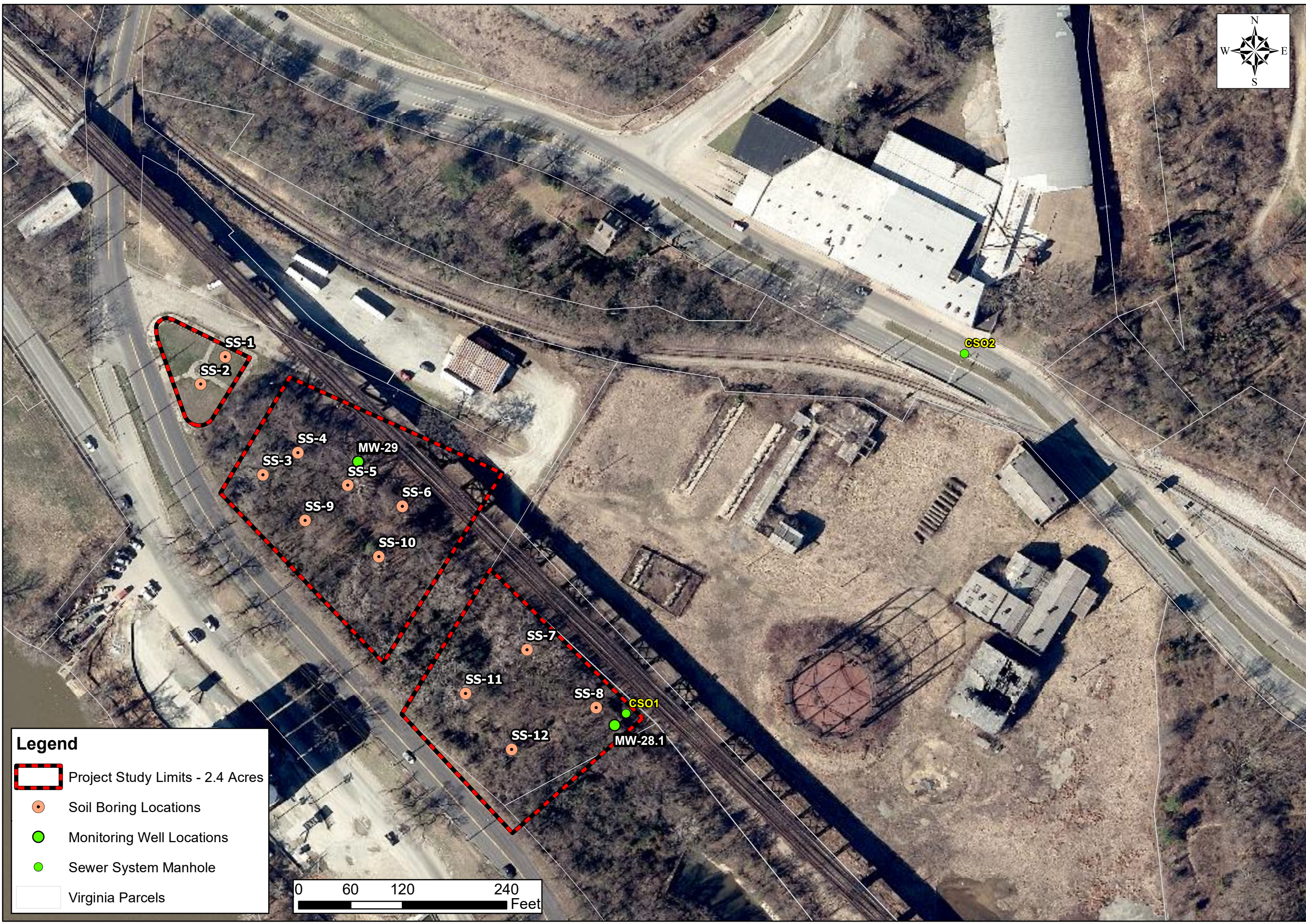
STUDY AREA MAP

JOB NUMBER
38393






SHEET NO.
1 OF 1

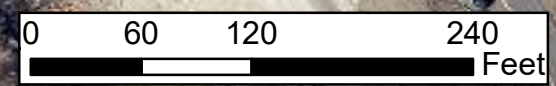
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Path: Y:\804\36156.016-Fulton_Gas_Works\GIS\Common Shared Exhibits\Comprehensive Sampling Map (E:MainStParcels).mxd



Legend

-  Project Study Limits - 2.4 Acres
-  Soil Boring Locations
-  Monitoring Well Locations
-  Sewer System Manhole
-  Virginia Parcels



TIMMONS GROUP

FULTON GAS WORKS (E. MAIN ST PARCELS)
CITY OF RICHMOND, VIRGINIA

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YOUR VISION ACHIEVED THROUGH OURS

Site Development | Residential | Infrastructure | Technology | Environmental

DATE	REVISION DESCRIPTION

DATE
01/29/2018

DRAWN BY
A. WILSON

DESIGNED BY
L. MAJOR

CHECKED BY
J. RUSSELL

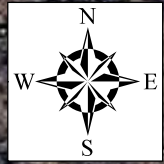
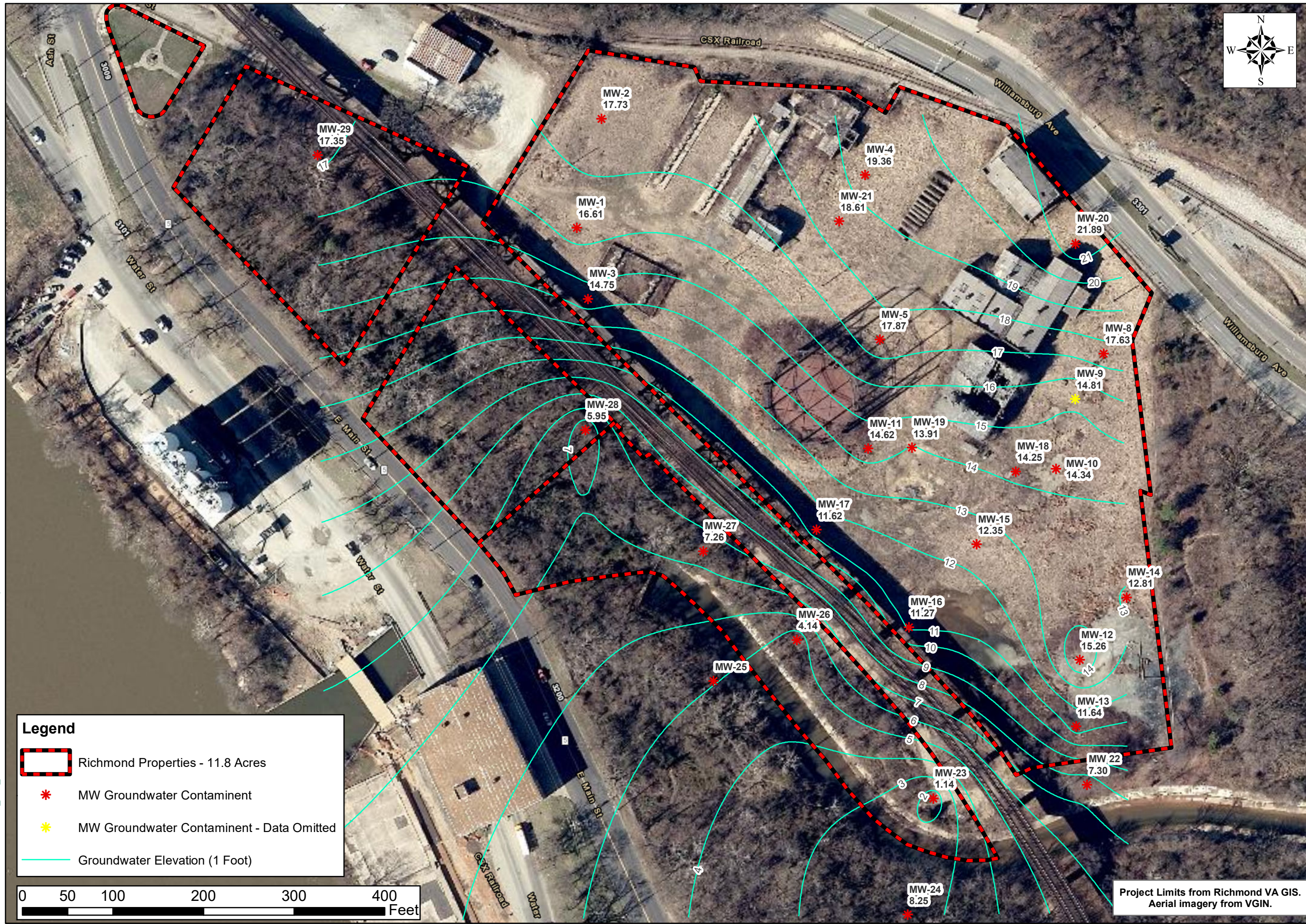
SCALE
1" = 120'

JOB NUMBER
38393

SHEET NO.
1 OF 1

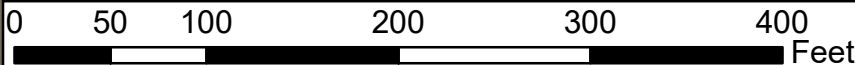
COMPREHENSIVE SAMPLING MAP

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Legend

- Richmond Properties - 11.8 Acres
- * MW Groundwater Contaminant
- * MW Groundwater Contaminant - Data Omitted
- Groundwater Elevation (1 Foot)



Project Limits from Richmond VA GIS.
Aerial imagery from VGIN.

TIMMONS GROUP

FULTON GAS WORKS
CITY OF RICHMOND, VIRGINIA

GROUND WATER ELEVATION MAP

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Site Development | Residential | Infrastructure | Technology | Environmental

DATE	REVISION DESCRIPTION

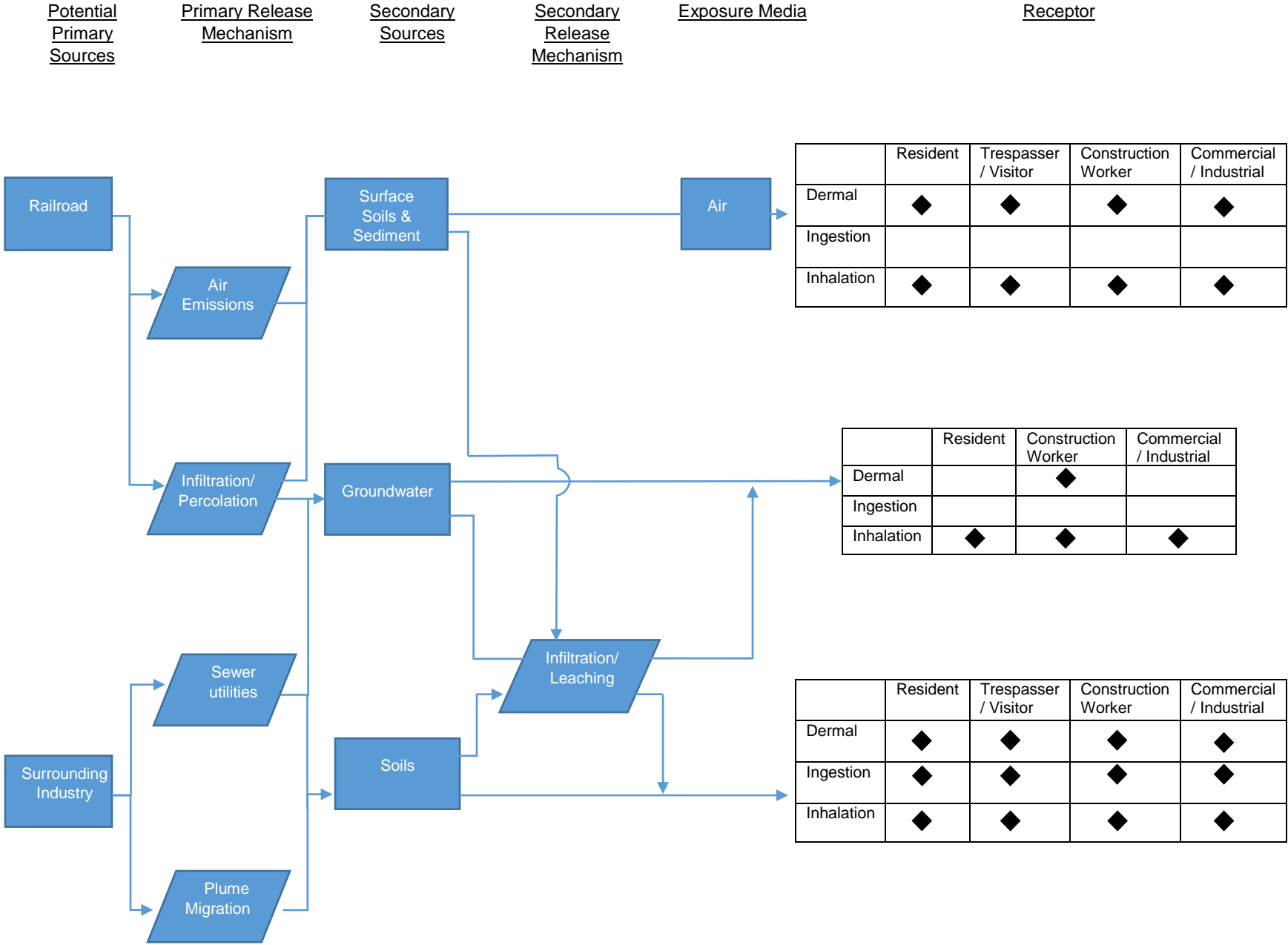
DATE	01/26/2018
DRAWN BY	L. MAJOR
DESIGNED BY	L. MAJOR
CHECKED BY	J. RUSSELL
SCALE	1" = 100'

JOB NUMBER	36156.015
SHEET NO.	1 OF 1

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APPENDIX B
CONCEPTUAL SITE MODEL

Conceptual Site Model



	Resident	Trespasser / Visitor	Construction Worker	Commercial / Industrial
Dermal	◆	◆	◆	◆
Ingestion				
Inhalation	◆	◆	◆	◆

	Resident	Construction Worker	Commercial / Industrial
Dermal		◆	
Ingestion			
Inhalation	◆	◆	◆

	Resident	Trespasser / Visitor	Construction Worker	Commercial / Industrial
Dermal	◆	◆	◆	◆
Ingestion	◆	◆	◆	◆
Inhalation	◆	◆	◆	◆

APPENDIX C
MONITORING WELL BORING LOGS

Project: East Main Street	Driller: Ground Zero Environmental
Location: Richmond, VA	Equipment: Geoprobe
Boring ID: SB-28	Total Depth (ft): 15
Date: 11/30/2016	Boring Diameter (in): 0.75
Water (ft): 10	Well Casing Material: Polyvinyl chloride

Depth (ft)	Soil and Rock Description	NRCS Classification	Water Depth	Remarks
-	Brown loam	L		Metals for soil sample SB-28 collected from first 24"
-	Coarse loam to sandy loam	SL		Staining visible 8-10"
-	Coarse loam to clay loam			Some gravel, light staining
2-				
-	Brown, clay loam	CL		Some staining visible
-	Probe loss			
4-				
-	Coarse sandy loam	SL		Staining visible
-	Probe loss			
6-	Brown silty loam	SiL		Orange-brown streaks Some staining visible
-				
8-	Gray-brown clay	C		Staining visible 102-103", 105-107"
-	Probe loss			
10-	Water Gray brown soil		▽	
-				
12-	Grayish clay	C		Light staining
-	Yellowing gray clay	C		
-	Brownish clay	C		SB-28 was immediately filled, no groundwater samples collected
14-				

Project: East Main Street	Driller: Ground Zero Environmental
Location: Richmond, VA	Equipment: Geoprobe
Boring ID: SB-29	Total Depth (ft): 13.75
Date: 11/30/2016	Boring Diameter (in): 0.75
Water (ft): 6.86	Well Casing Material: Polyvinyl chloride

Depth (ft)	Soil and Rock Description	NRCS Classification	Water Depth	Remarks
-	Topsoil, organic material, silty loam	SiL		
-	Grayish-brown silty loam	SiL		
-	Grayish-brown silty loam with gravel	SiL		Stained loam Heavier staining
2-	Probe loss			
4-				
4-	Silty loam	SiL		Staining present
6-	Gray sandy mix			Brick materials present Brick layer 72-75" Heavy staining 75-81"
6-	Yellow-gray clay mix		▽	
8-	Silty loam	SiL		Staining present
8-	Probe loss			
10-	Clay soils with redox			
-	Clay loam mixed with brick and sand materials			Staining visible
-	Gleyed soils with some red and yellow colors			Staining visible at 141"
12-	Gleyed clayey soils			Redox present
14-	Probe loss			
14-	Gleyed clayey soils			
16-	Black coarse loam			Staining visible
16-	Gleyed soils with orange coloring			Redox and staining visible
18-				
-				

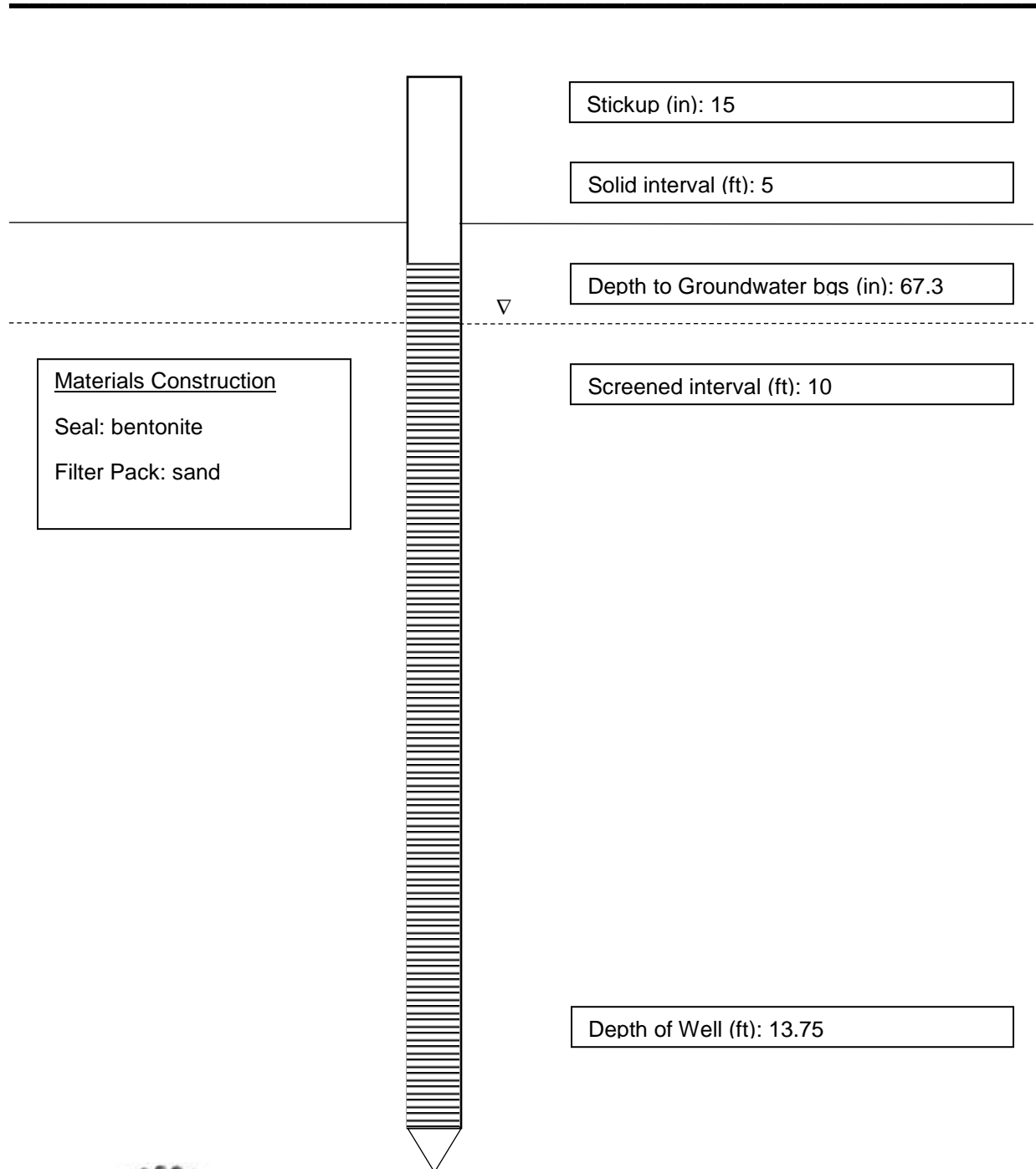
APPENDIX D
MONITORING WELL DIAGRAMS

Well Construction Log

Well Identification: MW-29

Installation Date: 11/30/2016
Development Date: 11/30/2016
Development Method: Overpumping
Drilling Method: Geoprobe

Boring Diameter: 2"
Diameter of Well: 0.75"
Depth of Well: 13.75'
Depth to Groundwater bgs: 5.61'
Well Construction Material: PVC Pipe



APPENDIX E
AQUIFER TEST DATA

Data Set: K:\804 - Environmental New\AQTESOLV Standard\Aqtw1.aqt
Date: 02/06/17
Time: 11:19:46

PROJECT INFORMATION

Company: Timmons Group
Client: City of Richmond
Project: 36156.015
Location: Fulton Gas Works
Test Date: 01/13/17
Test Well: MW-16

AQUIFER DATA

Saturated Thickness: 13.97 ft
Anisotropy Ratio (Kz/Kr): 287.8

PUMPING WELL DATA

No. of pumping wells: 1

Pumping Well No. 1: MW-16

X Location: 0. ft
Y Location: 0. ft

Casing Radius: 0.16 ft
Well Radius: 0.2604 ft

Fully Penetrating Well

No. of pumping periods: 1

Pumping Period Data

<u>Time (min)</u>	<u>Rate (gal/min)</u>
20.	1.5

OBSERVATION WELL DATA

No. of observation wells: 1

Observation Well No. 1: MW-16

X Location: 0. ft
Y Location: 0. ft

Radial distance from MW-16: 0. ft

Fully Penetrating Well

No. of Observations: 34

Observation Data

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
20.	5.5	33.	9.73
20.5	5.98	34.	9.85
21.	6.28	35.	9.98
21.5	6.49	36.	10.14
22.	6.73	37.	10.28
22.5	6.98	38.	10.4
23.	7.17	39.	10.5
23.5	7.42	40.	10.58
24.	7.67	45.	10.89
24.5	7.88	50.	11.08
25.	8.07	55.	11.31
27.	8.69	60.	11.58
28.	8.91	65.	11.81

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
29.	9.11	70.	12.24
30.	9.27	100.	13.04
31.	9.46	130.	13.46
32.	9.6	160.	13.65

SOLUTION

Pumping Test
 Aquifer Model: Unconfined
 Solution Method: Neuman

VISUAL ESTIMATION RESULTS

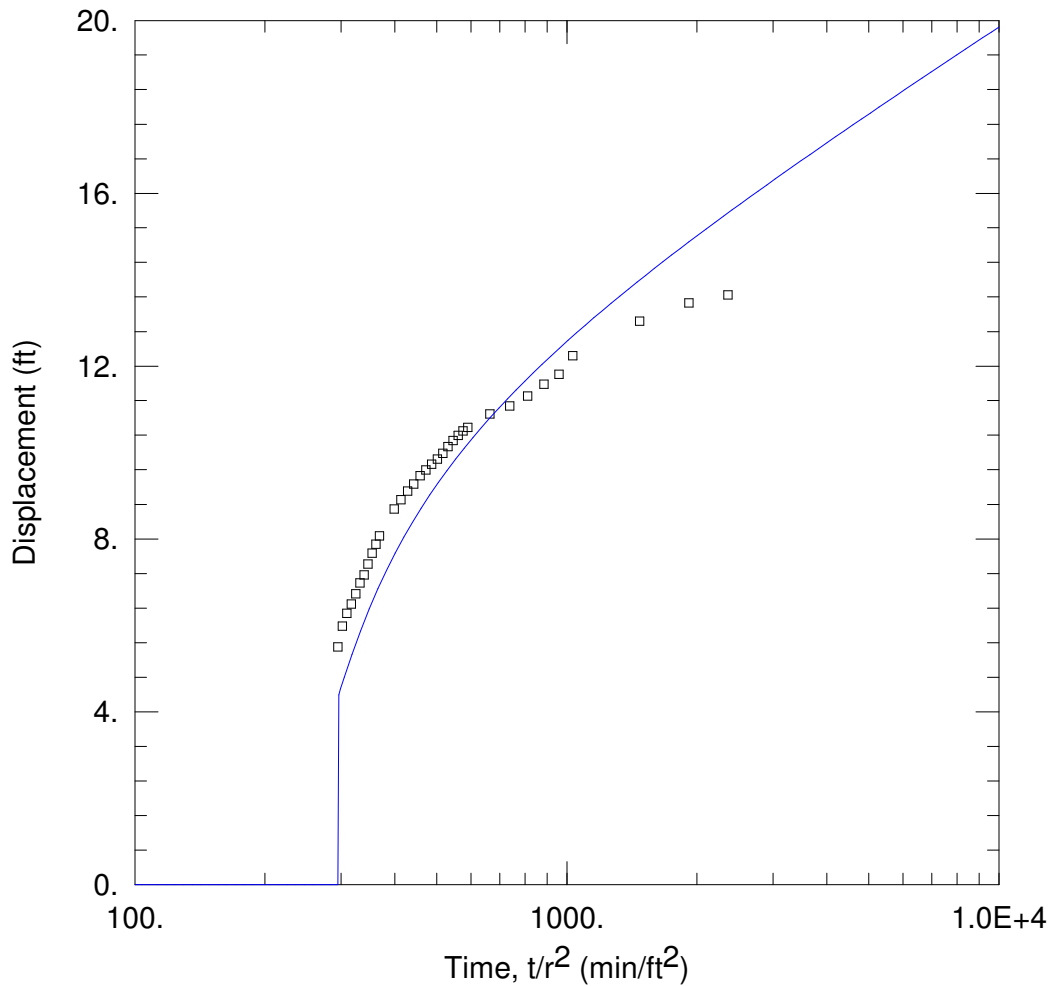
Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
T	8.254	ft ² /day
S	2.672E-14	
Sy	0.1	
B	0.1	

$K = T/b = 0.5909$ ft/day (0.0002084 cm/sec)
 $S_s = S/b = 1.913E-15$ 1/ft

Manually Measured Water Table Recovery Data

Measurement	Depth to Groundwater	Time Interval	Time Interval Units	Time	Height of Water Column
1	14.5		start test	12:20	5.5
2	14.02	30	seconds		5.98
3	13.72	30	seconds	12:21	6.28
4	13.51	30	seconds		6.49
5	13.27	30	seconds	12:22	6.73
6	13.02	30	seconds		6.98
7	12.83	30	seconds	12:23	7.17
8	12.58	30	seconds		7.42
9	12.33	30	seconds	12:24	7.67
10	12.12	30	seconds		7.88
11	11.93	30	seconds	12:25	8.07
12	11.31	1	minute	12:27	8.69
13	11.09	1	minute	12:28	8.91
14	10.89	1	minute	12:29	9.11
15	10.73	1	minute	12:30	9.27
16	10.54	1	minute	12:31	9.46
17	10.4	1	minute	12:32	9.6
18	10.27	1	minute	12:33	9.73
19	10.15	1	minute	12:34	9.85
20	10.02	1	minute	12:35	9.98
21	9.86	1	minute	12:36	10.14
22	9.72	1	minute	12:37	10.28
23	9.6	1	minute	12:38	10.4
24	9.5	1	minute	12:39	10.5
25	9.42	1	minute	12:40	10.58
26	9.11	5	minute	12:45	10.89
27	8.92	5	minute	12:50	11.08
28	8.69	5	minute	12:55	11.31
29	8.42	5	minute	1:00	11.58
30	8.19	5	minute	1:05	11.81
31	7.76	5	minute	1:10	12.24
32	6.96	30	minute	1:40	13.04
33	6.54	30	minute	2:10	13.46
34	6.35	30	minute	2:40	13.65



WELL TEST ANALYSIS

Data Set: K:\804 - Environmental New\AQTESOLV Standard\Aqtw1.aqt
 Date: 02/06/17 Time: 11:17:46

PROJECT INFORMATION

Company: Timmons Group
 Client: City of Richmond
 Project: 36156.015
 Location: Fulton Gas Works
 Test Well: MW-16
 Test Date: 01/13/17

AQUIFER DATA

Saturated Thickness: 13.97 ft

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
MW-16	0	0	□ MW-16	0	0

SOLUTION

Aquifer Model: <u>Unconfined</u>	Solution Method: <u>Neuman</u>
T = <u>8.254 ft²/day</u>	S = <u>2.672E-14</u>
Sy = <u>0.1</u>	β = <u>0.1</u>

APPENDIX F
LABORATORY CERTIFICATION



COMMONWEALTH of VIRGINIA
Department of General Services

Division of Consolidated Laboratory Services

*600 North 5th Street
Richmond, Virginia 23219-3691
(804) 648-4480
FAX (804) 692-0416*

10/28/2016

Edward Soyars
Air Water & Soil Laboratories, Inc.
1941 Reymet Road
Richmond VA 23237

VELAP ID: 460021

Dear Edward Soyars:

The Virginia Environmental Laboratory Accreditation Program has completed processing the requested revision to your certificate. Enclosed with this letter is certificate # 8886. Certificate # 8886 and the associated Scope of Accreditation must be posted in a prominent place at the laboratory.

Please contact your lead assessor, John Dec, at john.dec@dgs.virginia.gov or (804) 648-4480 x301 if you have any questions.

Sincerely yours,


Cathy Westerman
Manager, Laboratory Certification Program

Enclosures
cc: Carmela Tombes



**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF GENERAL SERVICES
DIVISION OF CONSOLIDATED LABORATORY SERVICES**



Certifies that

**VA Laboratory ID#: 460021
Air Water & Soil Laboratories, Inc.
1941 Reymet Road
Richmond, VA 23237**

**Owner: CARMELA TOMBES / W GUY BECKER
Responsible Official: CARMELA TOMBES**

Having met the requirements of 1 VAC 30-46 and
having been found compliant with the 2009 TNI Standard approved by The NELAC Institute
is hereby approved as an

Accredited Environmental Laboratory

As more fully described in the attached Scope of Accreditation

Effective Date: October 28, 2016

Expiration Date: June 14, 2017

Certificate # 8886

A handwritten signature in black ink that reads "Denise M. Toney".

**Denise M. Toney, Ph.D., HCLD
DGS Deputy Director for Laboratories**

Continued accreditation status depends on successful ongoing participation in the program.
Certificate to be conspicuously displayed at the laboratory.
Not valid unless accompanied by a valid Virginia Environmental Laboratory Accreditation Program (VELAP)
Scope of Accreditation.
Customers are urged to verify the laboratory's current accreditation status.



Commonwealth of Virginia
 Department of General Services
 Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 8886

Air Water & Soil Laboratories, Inc.
 1941 Reymet Road
 Richmond, VA 23237

Virginia Laboratory ID: 460021
 Effective Date: October 28, 2016
 Expiration Date: June 14, 2017

AIR

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 3C	METHANE	VA
EPA 3C	OXYGEN	VA
EPA TO-14A 2nd Ed.	1,1,2,2-TETRACHLOROETHANE	VA
EPA TO-14A 2nd Ed.	1,1,2-TRICHLOROETHANE	VA
EPA TO-14A 2nd Ed.	1,1-DICHLOROETHYLENE	VA
EPA TO-14A 2nd Ed.	1,2,4-TRIMETHYLBENZENE	VA
EPA TO-14A 2nd Ed.	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE (FREON-114)	VA
EPA TO-14A 2nd Ed.	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	VA
EPA TO-14A 2nd Ed.	1,3,5-TRIMETHYLBENZENE	VA
EPA TO-14A 2nd Ed.	1,4-DICHLOROBENZENE	VA
EPA TO-14A 2nd Ed.	BENZENE	VA
EPA TO-14A 2nd Ed.	BROMOFORM	VA
EPA TO-14A 2nd Ed.	CHLOROBENZENE	VA
EPA TO-14A 2nd Ed.	CHLOROFORM	VA
EPA TO-14A 2nd Ed.	CIS-1,3-DICHLOROPROPENE	VA
EPA TO-14A 2nd Ed.	ETHYLBENZENE	VA
EPA TO-14A 2nd Ed.	M+P-XYLENE	VA
EPA TO-14A 2nd Ed.	METHYL CHLORIDE (CHLOROMETHANE)	VA
EPA TO-14A 2nd Ed.	O-XYLENE	VA
EPA TO-14A 2nd Ed.	TETRACHLOROETHENE (PERCHLOROETHENE)	VA
EPA TO-14A 2nd Ed.	TRANS-1,2-DICHLOROETHENE	VA
EPA TO-14A 2nd Ed.	TRICHLOROETHENE (TRICHLOROETHYLENE)	VA
EPA TO-14A 2nd Ed.	VINYL CHLORIDE	VA
EPA TO-14A 2nd Ed. - EXTENDED	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	VA
EPA TO-14A 2nd Ed. - EXTENDED	2-HEXANONE	VA
EPA TO-14A 2nd Ed. - EXTENDED	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	VA
EPA TO-14A 2nd Ed. - EXTENDED	ACROLEIN (PROPENAL)	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 3C	NITROGEN (N2)	VA
EPA TO-14A 2nd Ed.	1,1,1-TRICHLOROETHANE	VA
EPA TO-14A 2nd Ed.	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)	VA
EPA TO-14A 2nd Ed.	1,1-DICHLOROETHANE	VA
EPA TO-14A 2nd Ed.	1,2,4-TRICHLOROBENZENE	VA
EPA TO-14A 2nd Ed.	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	VA
EPA TO-14A 2nd Ed.	1,2-DICHLOROBENZENE	VA
EPA TO-14A 2nd Ed.	1,2-DICHLOROPROPANE	VA
EPA TO-14A 2nd Ed.	1,3-DICHLOROBENZENE	VA
EPA TO-14A 2nd Ed.	2-BUTANONE (METHYL ETHYL KETONE, MEK)	VA
EPA TO-14A 2nd Ed.	BENZYL CHLORIDE	VA
EPA TO-14A 2nd Ed.	CARBON TETRACHLORIDE	VA
EPA TO-14A 2nd Ed.	CHLOROETHANE (ETHYL CHLORIDE)	VA
EPA TO-14A 2nd Ed.	CIS-1,2-DICHLOROETHYLENE	VA
EPA TO-14A 2nd Ed.	DICHLORODIFLUOROMETHANE (FREON-12)	VA
EPA TO-14A 2nd Ed.	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA
EPA TO-14A 2nd Ed.	METHYL BROMIDE (BROMOMETHANE)	VA
EPA TO-14A 2nd Ed.	METHYLENE CHLORIDE (DICHLOROMETHANE)	VA
EPA TO-14A 2nd Ed.	STYRENE	VA
EPA TO-14A 2nd Ed.	TOLUENE	VA
EPA TO-14A 2nd Ed.	TRANS-1,3-DICHLOROPROPENE	VA
EPA TO-14A 2nd Ed.	TRICHLOROFUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	VA
EPA TO-14A 2nd Ed. - EXTENDED	1,3-BUTADIENE	VA
EPA TO-14A 2nd Ed. - EXTENDED	2-CHLOROTOLUENE	VA
EPA TO-14A 2nd Ed. - EXTENDED	4-ETHYLTOLUENE	VA
EPA TO-14A 2nd Ed. - EXTENDED	ACETONE	VA
EPA TO-14A 2nd Ed. - EXTENDED	ALLYL CHLORIDE (3-CHLOROPROPENE)	VA

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Commonwealth of Virginia
 Department of General Services
 Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 8886

Air Water & Soil Laboratories, Inc.
 1941 Reymet Road
 Richmond, VA 23237

Virginia Laboratory ID: 460021
 Effective Date: October 28, 2016
 Expiration Date: June 14, 2017

AIR

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA TO-14A 2nd Ed. - EXTENDED	BROMODICHLOROMETHANE	VA
EPA TO-14A 2nd Ed. - EXTENDED	CHLORODIBROMOMETHANE	VA
EPA TO-14A 2nd Ed. - EXTENDED	ETHANOL	VA
EPA TO-14A 2nd Ed. - EXTENDED	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	VA
EPA TO-14A 2nd Ed. - EXTENDED	ISOPROPYLBENZENE	VA
EPA TO-14A 2nd Ed. - EXTENDED	METHYL TERT-BUTYL ETHER (MTBE)	VA
EPA TO-14A 2nd Ed. - EXTENDED	N-HEPTANE	VA
EPA TO-14A 2nd Ed. - EXTENDED	N-NONANE	VA
EPA TO-14A 2nd Ed. - EXTENDED	N-PROPYLBENZENE	VA
EPA TO-14A 2nd Ed. - EXTENDED	TERT-BUTYL ALCOHOL	VA
EPA TO-14A 2nd Ed. - EXTENDED	VINYL ACETATE	VA
EPA TO-14A 2nd Ed. - EXTENDED	XYLENE (TOTAL)	VA
EPA TO-15 2nd Ed.	1,1,2,2-TETRACHLOROETHANE	VA
EPA TO-15 2nd Ed.	1,1,2-TRICHLOROETHANE	VA
EPA TO-15 2nd Ed.	1,1-DICHLOROETHYLENE	VA
EPA TO-15 2nd Ed.	1,2,4-TRIMETHYLBENZENE	VA
EPA TO-15 2nd Ed.	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE (FREON-114)	VA
EPA TO-15 2nd Ed.	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	VA
EPA TO-15 2nd Ed.	1,3,5-TRIMETHYLBENZENE	VA
EPA TO-15 2nd Ed.	1,3-DICHLOROBENZENE	VA
EPA TO-15 2nd Ed.	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	VA
EPA TO-15 2nd Ed.	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	VA
EPA TO-15 2nd Ed.	ALLYL CHLORIDE (3-CHLOROPROPENE)	VA
EPA TO-15 2nd Ed.	BENZYL CHLORIDE	VA
EPA TO-15 2nd Ed.	BROMOFORM	VA
EPA TO-15 2nd Ed.	CARBON TETRACHLORIDE	VA
EPA TO-15 2nd Ed.	CHLOROETHANE (ETHYL CHLORIDE)	VA
EPA TO-15 2nd Ed.	CIS-1,2-DICHLOROETHYLENE	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA TO-14A 2nd Ed. - EXTENDED	CARBON DISULFIDE	VA
EPA TO-14A 2nd Ed. - EXTENDED	CYCLOHEXANE	VA
EPA TO-14A 2nd Ed. - EXTENDED	ETHYL ACETATE	VA
EPA TO-14A 2nd Ed. - EXTENDED	ISOCTANE (2-METHYLHEPTANE)	VA
EPA TO-14A 2nd Ed. - EXTENDED	METHYL METHACRYLATE	VA
EPA TO-14A 2nd Ed. - EXTENDED	N-BUTANE	VA
EPA TO-14A 2nd Ed. - EXTENDED	N-HEXANE	VA
EPA TO-14A 2nd Ed. - EXTENDED	N-PENTANE	VA
EPA TO-14A 2nd Ed. - EXTENDED	PROPYLENE	VA
EPA TO-14A 2nd Ed. - EXTENDED	TETRAHYDROFURAN (THF)	VA
EPA TO-14A 2nd Ed. - EXTENDED	VINYL BROMIDE (BROMOETHENE)	VA
EPA TO-15 2nd Ed.	1,1,1-TRICHLOROETHANE	VA
EPA TO-15 2nd Ed.	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)	VA
EPA TO-15 2nd Ed.	1,1-DICHLOROETHANE	VA
EPA TO-15 2nd Ed.	1,2,4-TRICHLOROBENZENE	VA
EPA TO-15 2nd Ed.	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	VA
EPA TO-15 2nd Ed.	1,2-DICHLOROBENZENE	VA
EPA TO-15 2nd Ed.	1,2-DICHLOROPROPANE	VA
EPA TO-15 2nd Ed.	1,3-BUTADIENE	VA
EPA TO-15 2nd Ed.	1,4-DICHLOROBENZENE	VA
EPA TO-15 2nd Ed.	2-BUTANONE (METHYL ETHYL KETONE, MEK)	VA
EPA TO-15 2nd Ed.	ACROLEIN (PROPENAL)	VA
EPA TO-15 2nd Ed.	BENZENE	VA
EPA TO-15 2nd Ed.	BROMODICHLOROMETHANE	VA
EPA TO-15 2nd Ed.	CARBON DISULFIDE	VA
EPA TO-15 2nd Ed.	CHLOROBENZENE	VA
EPA TO-15 2nd Ed.	CHLOROFORM	VA

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AIR

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA TO-15 2nd Ed.	CIS-1,3-DICHLOROPROPENE	VA
EPA TO-15 2nd Ed.	DICHLORODIFLUOROMETHANE (FREON-12)	VA
EPA TO-15 2nd Ed.	ETHYLBENZENE	VA
EPA TO-15 2nd Ed.	ISOPROPYLBENZENE	VA
EPA TO-15 2nd Ed.	METHYL BROMIDE (BROMOMETHANE)	VA
EPA TO-15 2nd Ed.	METHYL METHACRYLATE	VA
EPA TO-15 2nd Ed.	METHYLENE CHLORIDE (DICHLOROMETHANE)	VA
EPA TO-15 2nd Ed.	N-HEXANE	VA
EPA TO-15 2nd Ed.	PROPYLENE	VA
EPA TO-15 2nd Ed.	TETRACHLOROETHENE (PERCHLOROETHENE)	VA
EPA TO-15 2nd Ed.	TOLUENE	VA
EPA TO-15 2nd Ed.	TRANS-1,3-DICHLOROPROPENE	VA
EPA TO-15 2nd Ed.	TRICHLOROFUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	VA
EPA TO-15 2nd Ed.	VINYL BROMIDE (BROMOETHENE)	VA
EPA TO-15 2nd Ed.	XYLENE (TOTAL)	VA
EPA TO-15 2nd Ed. - EXTENDED	2-CHLOROTOLUENE	VA
EPA TO-15 2nd Ed. - EXTENDED	4-ETHYLTOLUENE	VA
EPA TO-15 2nd Ed. - EXTENDED	CHLORODIBROMOMETHANE	VA
EPA TO-15 2nd Ed. - EXTENDED	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	VA
EPA TO-15 2nd Ed. - EXTENDED	N-BUTANE	VA
EPA TO-15 2nd Ed. - EXTENDED	N-PENTANE	VA
EPA TO-15 2nd Ed. - EXTENDED	NAPHTHALENE	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA TO-15 2nd Ed.	CYCLOHEXANE	VA
EPA TO-15 2nd Ed.	ETHYL ACETATE	VA
EPA TO-15 2nd Ed.	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA
EPA TO-15 2nd Ed.	M+P-XYLENE	VA
EPA TO-15 2nd Ed.	METHYL CHLORIDE (CHLOROMETHANE)	VA
EPA TO-15 2nd Ed.	METHYL TERT-BUTYL ETHER (MTBE)	VA
EPA TO-15 2nd Ed.	N-HEPTANE	VA
EPA TO-15 2nd Ed.	O-XYLENE	VA
EPA TO-15 2nd Ed.	STYRENE	VA
EPA TO-15 2nd Ed.	TETRAHYDROFURAN (THF)	VA
EPA TO-15 2nd Ed.	TRANS-1,2-DICHLOROETHENE	VA
EPA TO-15 2nd Ed.	TRICHLOROETHENE (TRICHLOROETHYLENE)	VA
EPA TO-15 2nd Ed.	VINYL ACETATE	VA
EPA TO-15 2nd Ed.	VINYL CHLORIDE	VA
EPA TO-15 2nd Ed. - EXTENDED	1,1,1,2-TETRACHLOROETHANE	VA
EPA TO-15 2nd Ed. - EXTENDED	2-HEXANONE	VA
EPA TO-15 2nd Ed. - EXTENDED	ACETONE	VA
EPA TO-15 2nd Ed. - EXTENDED	ETHANOL	VA
EPA TO-15 2nd Ed. - EXTENDED	ISOCTANE (2-METHYLHEPTANE)	VA
EPA TO-15 2nd Ed. - EXTENDED	N-NONANE	VA
EPA TO-15 2nd Ed. - EXTENDED	N-PROPYLBENZENE	VA
EPA TO-15 2nd Ed. - EXTENDED	TERT-BUTYL ALCOHOL	VA

DRINKING WATER

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
ENTEROLERT®	ENTEROCOCCI	VA
EPA 200.7 REV 4.4	ALUMINUM	VA
EPA 200.7 REV 4.4	CADMIUM	VA
EPA 200.7 REV 4.4	CHROMIUM	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 180.1 REV 2	TURBIDITY	VA
EPA 200.7 REV 4.4	BARIIUM	VA
EPA 200.7 REV 4.4	CALCIUM	VA
EPA 200.7 REV 4.4	COPPER	VA

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DRINKING WATER

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 200.7 REV 4.4	IRON	VA
EPA 200.7 REV 4.4	MANGANESE	VA
EPA 200.7 REV 4.4	SILVER	VA
EPA 200.7 REV 4.4	ZINC	VA
EPA 200.8 REV 5.4	ANTIMONY	VA
EPA 200.8 REV 5.4	BARIIUM	VA
EPA 200.8 REV 5.4	CADMIUM	VA
EPA 200.8 REV 5.4	COPPER	VA
EPA 200.8 REV 5.4	MANGANESE	VA
EPA 200.8 REV 5.4	SELENIUM	VA
EPA 200.8 REV 5.4	THALLIUM	VA
EPA 200.9 REV 2.2	ANTIMONY	VA
EPA 200.9 REV 2.2	BERYLLIUM	VA
EPA 200.9 REV 2.2	LEAD	VA
EPA 200.9 REV 2.2	THALLIUM	VA
EPA 300.0 REV 2.1	CHLORIDE	VA
EPA 300.0 REV 2.1	NITRATE AS N	VA
EPA 300.0 REV 2.1	NITRITE AS N	VA
EPA 504.1 REV 1.1	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	VA
EPA 508.1 REV 2	AROCLOR-1016 (PCB-1016)	VA
EPA 508.1 REV 2	AROCLOR-1232 (PCB-1232)	VA
EPA 508.1 REV 2	AROCLOR-1248 (PCB-1248)	VA
EPA 508.1 REV 2	AROCLOR-1260 (PCB-1260)	VA
EPA 508.1 REV 2	ENDRIN	VA
EPA 508.1 REV 2	HEPTACHLOR	VA
EPA 508.1 REV 2	METHOXYCHLOR	VA
EPA 515.4 REV 1	2,4-D	VA
EPA 515.4 REV 1	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	VA
EPA 515.4 REV 1	PICLORAM	VA
EPA 524.2 REV 4.1	1,1,1-TRICHLOROETHANE	VA
EPA 524.2 REV 4.1	1,1-DICHLOROETHYLENE	VA
EPA 524.2 REV 4.1	1,2-DICHLOROBENZENE	VA
EPA 524.2 REV 4.1	1,2-DICHLOROPROPANE	VA
EPA 524.2 REV 4.1	BENZENE	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 200.7 REV 4.4	MAGNESIUM	VA
EPA 200.7 REV 4.4	NICKEL	VA
EPA 200.7 REV 4.4	SODIUM	VA
EPA 200.8 REV 5.4	ALUMINIUM	VA
EPA 200.8 REV 5.4	ARSENIC	VA
EPA 200.8 REV 5.4	BERYLLIUM	VA
EPA 200.8 REV 5.4	CHROMIUM	VA
EPA 200.8 REV 5.4	LEAD	VA
EPA 200.8 REV 5.4	NICKEL	VA
EPA 200.8 REV 5.4	SILVER	VA
EPA 200.8 REV 5.4	ZINC	VA
EPA 200.9 REV 2.2	ARSENIC	VA
EPA 200.9 REV 2.2	CADMIUM	VA
EPA 200.9 REV 2.2	SELENIUM	VA
EPA 245.1 REV 3	MERCURY	VA
EPA 300.0 REV 2.1	FLUORIDE	VA
EPA 300.0 REV 2.1	NITRATE/NITRITE	VA
EPA 300.0 REV 2.1	SULFATE	VA
EPA 504.1 REV 1.1	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	VA
EPA 508.1 REV 2	AROCLOR-1221 (PCB-1221)	VA
EPA 508.1 REV 2	AROCLOR-1242 (PCB-1242)	VA
EPA 508.1 REV 2	AROCLOR-1254 (PCB-1254)	VA
EPA 508.1 REV 2	CHLORDANE (TECH.)	VA
EPA 508.1 REV 2	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	VA
EPA 508.1 REV 2	HEPTACHLOR EPOXIDE	VA
EPA 508.1 REV 2	TOXAPHENE (CHLORINATED CAMPHENE)	VA
EPA 515.4 REV 1	DALAPON	VA
EPA 515.4 REV 1	PENTACHLOROPHENOL	VA
EPA 515.4 REV 1	SILVEX (2,4,5-TP)	VA
EPA 524.2 REV 4.1	1,1,2-TRICHLOROETHANE	VA
EPA 524.2 REV 4.1	1,2,4-TRICHLOROBENZENE	VA
EPA 524.2 REV 4.1	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	VA
EPA 524.2 REV 4.1	1,4-DICHLOROBENZENE	VA
EPA 524.2 REV 4.1	BROMODICHLOROMETHANE	VA

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DRINKING WATER

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 524.2 REV 4.1	BROMOFORM	VA
EPA 524.2 REV 4.1	CHLOROBENZENE	VA
EPA 524.2 REV 4.1	CHLOROFORM	VA
EPA 524.2 REV 4.1	ETHYLBENZENE	VA
EPA 524.2 REV 4.1	STYRENE	VA
EPA 524.2 REV 4.1	TOLUENE	VA
EPA 524.2 REV 4.1	TRANS-1,2-DICHLOROETHENE	VA
EPA 524.2 REV 4.1	VINYL CHLORIDE	VA
EPA 525.2 REV 2	ALACHLOR	VA
EPA 525.2 REV 2	BENZO(A)PYRENE	VA
EPA 525.2 REV 2	BIS(2-ETHYLHEXYL)ADIPATE (D(2-ETHYLHEXYL)ADIPATE)	VA
EPA 525.2 REV 2	HEXACHLOROCYCLOPENTADIENE	VA
EPA 531.2 REV 1	CARBOFURAN (FURADEN)	VA
EPA 552.3 REV 1	BROMOACETIC ACID	VA
EPA 552.3 REV 1	DIBROMOACETIC ACID	VA
EPA 552.3 REV 1	HALOACETIC ACIDS - FIVE (HAA5)	VA
SIMPLATE	HETEROTROPHIC PLATE COUNT	VA
SM 2320 B-2011	ALKALINITY AS CaCO3	VA
SM 2540 C-2011	RESIDUE-FILTERABLE (TDS)	VA
SM 4500-H+ B-2011	PH	VA
SM 4500-P E-2011	ORTHOPHOSPHATE AS P	VA
SM 5310 C-2011	TOTAL ORGANIC CARBON	VA
SM 9223 COLILERT-18 MPN	ESCHERICHIA COLI	VA
SM 9223 COLILERT-18 P/A	ESCHERICHIA COLI	VA
SM 9223 COLISURE®	ESCHERICHIA COLI	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 524.2 REV 4.1	CARBON TETRACHLORIDE	VA
EPA 524.2 REV 4.1	CHLORODIBROMOMETHANE	VA
EPA 524.2 REV 4.1	CIS-1,2-DICHLOROETHYLENE	VA
EPA 524.2 REV 4.1	METHYLENE CHLORIDE (DICHLOROMETHANE)	VA
EPA 524.2 REV 4.1	TETRACHLOROETHENE (PERCHLOROETHENE)	VA
EPA 524.2 REV 4.1	TOTAL TRIHALOMETHANES	VA
EPA 524.2 REV 4.1	TRICHLOROETHENE (TRICHLOROETHYLENE)	VA
EPA 524.2 REV 4.1	XYLENE (TOTAL)	VA
EPA 525.2 REV 2	ATRAZINE	VA
EPA 525.2 REV 2	BIS(2-ETHYLHEXYL) PHTHALATE (D(2-ETHYLHEXYL)PHTHALATE), (DEHP)	VA
EPA 525.2 REV 2	HEXACHLOROBENZENE	VA
EPA 525.2 REV 2	SIMAZINE	VA
EPA 531.2 REV 1	OXAMYL	VA
EPA 552.3 REV 1	CHLOROACETIC ACID	VA
EPA 552.3 REV 1	DICHLOROACETIC ACID	VA
EPA 552.3 REV 1	TRICHLOROACETIC ACID	VA
SM 2130 B-2011	TURBIDITY	VA
SM 2510 B-2011	CONDUCTIVITY	VA
SM 4500-CN ⁻ E-2011	CYANIDE	VA
SM 4500-NO3 ⁻ F-2011	NITRATE/NITRITE	VA
SM 5310 C-2011	DISSOLVED ORGANIC CARBON (DOC)	VA
SM 5910 B-2011	UV 254	VA
SM 9223 COLILERT-18 MPN	TOTAL COLIFORMS	VA
SM 9223 COLILERT-18 P/A	TOTAL COLIFORMS	VA
SM 9223 COLISURE®	TOTAL COLIFORMS	VA

NON-POTABLE WATER

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
ASTM D 7065-06	NONYLPHENOL	VA
ENTEROLERT®	ENTEROCOCCI	VA
EPA 120.1	CONDUCTIVITY	VA
EPA 1312	PREP: SYNTHETIC PRECIPITATION LEACHING PROCEDURE	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
COLILERT-18 MPN	ESCHERICHIA COLI	VA
EPA 1010	FLASHPOINT	VA
EPA 1311	PREP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE	VA
EPA 160.4	RESIDUE-VOLATILE	VA

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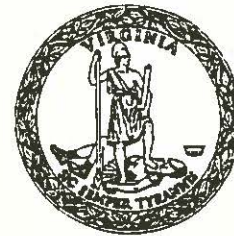
NON-POTABLE WATER

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>	<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 1664 A	OIL AND GREASE (AS HEM)	VA	EPA 1664 A	TOTAL PETROLEUM HYDROCARBONS (TPH) (AS NONPOLAR MATERIAL, SGT-HEM)	VA
EPA 180.1 REV 2	TURBIDITY	VA	EPA 200.2 REV 2.8	PREP: SAMPLE PREPARATION PROCEDURE FOR SPECTROCHEMICAL DETERMINATION OF TOTAL RECOVERABLE ELEMENTS	VA
EPA 200.7 REV 4.4	ALUMINUM	VA	EPA 200.7 REV 4.4	ANTIMONY	VA
EPA 200.7 REV 4.4	ARSENIC	VA	EPA 200.7 REV 4.4	BARIUM	VA
EPA 200.7 REV 4.4	BERYLLIUM	VA	EPA 200.7 REV 4.4	BORON	VA
EPA 200.7 REV 4.4	CADMIUM	VA	EPA 200.7 REV 4.4	CALCIUM	VA
EPA 200.7 REV 4.4	CHROMIUM	VA	EPA 200.7 REV 4.4	COBALT	VA
EPA 200.7 REV 4.4	COPPER	VA	EPA 200.7 REV 4.4	IRON	VA
EPA 200.7 REV 4.4	LEAD	VA	EPA 200.7 REV 4.4	MAGNESIUM	VA
EPA 200.7 REV 4.4	MANGANESE	VA	EPA 200.7 REV 4.4	MOLYBDENUM	VA
EPA 200.7 REV 4.4	NICKEL	VA	EPA 200.7 REV 4.4	POTASSIUM	VA
EPA 200.7 REV 4.4	SELENIUM	VA	EPA 200.7 REV 4.4	SILVER	VA
EPA 200.7 REV 4.4	SODIUM	VA	EPA 200.7 REV 4.4	THALLIUM	VA
EPA 200.7 REV 4.4	TIN	VA	EPA 200.7 REV 4.4	TITANIUM	VA
EPA 200.7 REV 4.4	VANADIUM	VA	EPA 200.7 REV 4.4	ZINC	VA
EPA 200.8 REV 5.4	ANTIMONY	VA	EPA 200.8 REV 5.4	ARSENIC	VA
EPA 200.8 REV 5.4	BARIUM	VA	EPA 200.8 REV 5.4	BERYLLIUM	VA
EPA 200.8 REV 5.4	CADMIUM	VA	EPA 200.8 REV 5.4	CHROMIUM	VA
EPA 200.8 REV 5.4	COBALT	VA	EPA 200.8 REV 5.4	COPPER	VA
EPA 200.8 REV 5.4	LEAD	VA	EPA 200.8 REV 5.4	MANGANESE	VA
EPA 200.8 REV 5.4	MOLYBDENUM	VA	EPA 200.8 REV 5.4	NICKEL	VA
EPA 200.8 REV 5.4	SELENIUM	VA	EPA 200.8 REV 5.4	SILVER	VA
EPA 200.8 REV 5.4	THALLIUM	VA	EPA 200.8 REV 5.4	VANADIUM	VA
EPA 200.8 REV 5.4	ZINC	VA	EPA 200.9 REV 2.2	ANTIMONY	VA
EPA 200.9 REV 2.2	ARSENIC	VA	EPA 200.9 REV 2.2	BERYLLIUM	VA
EPA 200.9 REV 2.2	CADMIUM	VA	EPA 200.9 REV 2.2	CHROMIUM	VA
EPA 200.9 REV 2.2	COPPER	VA	EPA 200.9 REV 2.2	LEAD	VA
EPA 200.9 REV 2.2	NICKEL	VA	EPA 200.9 REV 2.2	SELENIUM	VA
EPA 200.9 REV 2.2	SILVER	VA	EPA 200.9 REV 2.2	THALLIUM	VA
EPA 200.9 REV 2.2	TIN	VA	EPA 245.1 REV 3	MERCURY	VA
EPA 300.0 REV 2.1	BROMIDE	VA	EPA 300.0 REV 2.1	CHLORIDE	VA
EPA 300.0 REV 2.1	FLUORIDE	VA	EPA 300.0 REV 2.1	NITRATE AS N	VA
EPA 300.0 REV 2.1	NITRATE/NITRITE	VA	EPA 300.0 REV 2.1	NITRITE AS N	VA
EPA 300.0 REV 2.1	SULFATE	VA			

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Commonwealth of Virginia
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Scope of Accreditation

VELAP Certificate No.: 8886

Air Water & Soil Laboratories, Inc.
 1941 Reymet Road
 Richmond, VA 23237

Virginia Laboratory ID: 460021
 Effective Date: October 28, 2016
 Expiration Date: June 14, 2017

NON-POTABLE WATER

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>	<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 3005 A	PREP: ACID DIGESTION OF WATERS FOR TOTAL RECOVERABLE OR DISSOLVED METALS	VA	EPA 3010 A	PREP: ACID DIGESTION OF AQUEOUS SAMPLES AND EXTRACTS FOR TOTAL METALS	VA
EPA 350.1 REV 2	AMMONIA AS N	VA	EPA 351.2 REV 2	KJELDAHL NITROGEN - TOTAL	VA
EPA 3510 C	PREP: LIQUID-LIQUID EXTRACTION	VA	EPA 3511	PREP: ORGANIC EXTRACTION AND SAMPLE PREPARATION	VA
EPA 3665 A	SULFURIC ACID/PERMANGANATE CLEAN-UP	VA	EPA 420.1	TOTAL PHENOLICS	VA
EPA 5030	PREP: PURGE AND TRAP FOR AQUEOUS SAMPLES	VA	EPA 6010 C	ALUMINUM	VA
EPA 6010 C	ANTIMONY	VA	EPA 6010 C	ARSENIC	VA
EPA 6010 C	BARIUM	VA	EPA 6010 C	BERYLLIUM	VA
EPA 6010 C	BORON	VA	EPA 6010 C	CADMIUM	VA
EPA 6010 C	CALCIUM	VA	EPA 6010 C	CHROMIUM	VA
EPA 6010 C	COBALT	VA	EPA 6010 C	COPPER	VA
EPA 6010 C	IRON	VA	EPA 6010 C	LEAD	VA
EPA 6010 C	LITHIUM	VA	EPA 6010 C	MAGNESIUM	VA
EPA 6010 C	MANGANESE	VA	EPA 6010 C	MOLYBDENUM	VA
EPA 6010 C	NICKEL	VA	EPA 6010 C	POTASSIUM	VA
EPA 6010 C	SELENIUM	VA	EPA 6010 C	SILVER	VA
EPA 6010 C	SODIUM	VA	EPA 6010 C	STRONTIUM	VA
EPA 6010 C	THALLIUM	VA	EPA 6010 C	TIN	VA
EPA 6010 C	TITANIUM	VA	EPA 6010 C	VANADIUM	VA
EPA 6010 C	ZINC	VA	EPA 6020 A	ANTIMONY	VA
EPA 6020 A	ARSENIC	VA	EPA 6020 A	BARIUM	VA
EPA 6020 A	BERYLLIUM	VA	EPA 6020 A	CADMIUM	VA
EPA 6020 A	CHROMIUM	VA	EPA 6020 A	COBALT	VA
EPA 6020 A	COPPER	VA	EPA 6020 A	LEAD	VA
EPA 6020 A	MANGANESE	VA	EPA 6020 A	NICKEL	VA
EPA 6020 A	SELENIUM	VA	EPA 6020 A	SILVER	VA
EPA 6020 A	THALLIUM	VA	EPA 6020 A	VANADIUM	VA
EPA 6020 A	ZINC	VA	EPA 6020 A - EXTENDED	MOLYBDENUM	VA
EPA 6020 A - EXTENDED	TIN	VA	EPA 608	4,4'-DDD	VA
EPA 608	4,4'-DDE	VA	EPA 608	4,4'-DDT	VA
EPA 608	ALDRIN	VA	EPA 608	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	VA
EPA 608	AROCLOR-1016 (PCB-1016)	VA	EPA 608	AROCLOR-1221 (PCB-1221)	VA
EPA 608	AROCLOR-1232 (PCB-1232)	VA	EPA 608	AROCLOR-1242 (PCB-1242)	VA
EPA 608	AROCLOR-1248 (PCB-1248)	VA	EPA 608	AROCLOR-1254 (PCB-1254)	VA
EPA 608	AROCLOR-1260 (PCB-1260)	VA			

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EPA 608	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	VA
EPA 608	DELTA-BHC	VA
EPA 608	ENDOSULFAN I	VA
EPA 608	ENDOSULFAN SULFATE	VA
EPA 608	ENDRIN ALDEHYDE	VA
EPA 608	HEPTACHLOR	VA
EPA 608	TOXAPHENE (CHLORINATED CAMPHENE)	VA
EPA 624	1,1,1-TRICHLOROETHANE	VA
EPA 624	1,1,2-TRICHLOROETHANE	VA
EPA 624	1,2-DICHLOROBENZENE	VA
EPA 624	1,2-DICHLOROPROPANE	VA
EPA 624	1,4-DICHLOROBENZENE	VA
EPA 624	ACROLEIN (PROPENAL)	VA
EPA 624	BENZENE	VA
EPA 624	BROMOFORM	VA
EPA 624	CHLOROBENZENE	VA
EPA 624	CHLOROETHANE (ETHYL CHLORIDE)	VA
EPA 624	CIS-1,3-DICHLOROPROPENE	VA
EPA 624	METHYL BROMIDE (BROMOMETHANE)	VA
EPA 624	METHYLENE CHLORIDE (DICHLOROMETHANE)	VA
EPA 624	TOLUENE	VA
EPA 624	TRANS-1,3-DICHLOROPROPENE	VA
EPA 624	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	VA
EPA 624 - EXTENDED	1,1-DICHLOROETHYLENE	VA
EPA 624 - EXTENDED	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	VA
EPA 624 - EXTENDED	ETHYL ACETATE	VA
EPA 624 - EXTENDED	METHYL TERT-BUTYL ETHER (MTBE)	VA
EPA 624 - EXTENDED	XYLENE (TOTAL)	VA
EPA 625	2,2'-OXYBIS(1-CHLOROPROPANE)	VA

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EPA 608	CHLORDANE (TECH.)	VA
EPA 608	DIELDRIN	VA
EPA 608	ENDOSULFAN II	VA
EPA 608	ENDRIN	VA
EPA 608	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	VA
EPA 608	HEPTACHLOR EPOXIDE	VA
EPA 608.2	METHOXYCHLOR	VA
EPA 624	1,1,2,2-TETRACHLOROETHANE	VA
EPA 624	1,1-DICHLOROETHANE	VA
EPA 624	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	VA
EPA 624	1,3-DICHLOROBENZENE	VA
EPA 624	2-CHLOROETHYL VINYL ETHER	VA
EPA 624	ACRYLONITRILE	VA
EPA 624	BROMODICHLOROMETHANE	VA
EPA 624	CARBON TETRACHLORIDE	VA
EPA 624	CHLORODIBROMOMETHANE	VA
EPA 624	CHLOROFORM	VA
EPA 624	ETHYLBENZENE	VA
EPA 624	METHYL CHLORIDE (CHLOROMETHANE)	VA
EPA 624	TETRACHLOROETHENE (PERCHLOROETHENE)	VA
EPA 624	TRANS-1,2-DICHLOROETHENE	VA
EPA 624	TRICHLOROETHENE (TRICHLOROETHYLENE)	VA
EPA 624	VINYL CHLORIDE	VA
EPA 624 - EXTENDED	2-BUTANONE (METHYL ETHYL KETONE, MEK)	VA
EPA 624 - EXTENDED	ACETONE	VA
EPA 624 - EXTENDED	ISOPROPYL ACETATE	VA
EPA 624 - EXTENDED	N-AMYL ACETATE	VA
EPA 625	1,2,4-TRICHLOROBENZENE	VA
EPA 625	2,3,7,8-TCDD (DIOXIN) - QUALITATIVE SCREEN	VA

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EPA 625	2,4,6-TRICHLOROPHENOL	VA	EPA 625	2,4-DICHLOROPHENOL	VA
EPA 625	2,4-DIMETHYLPHENOL	VA	EPA 625	2,4-DINITROPHENOL	VA
EPA 625	2,4-DINITROTOLUENE (2,4-DNT)	VA	EPA 625	2,6-DINITROTOLUENE (2,6-DNT)	VA
EPA 625	2-CHLORONAPHTHALENE	VA	EPA 625	2-CHLOROPHENOL	VA
EPA 625	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	VA	EPA 625	2-METHYLPHENOL (O-CRESOL)	VA
EPA 625	2-NITROPHENOL	VA	EPA 625	3,3'-DICHLOROBENZIDINE	VA
EPA 625	4-BROMOPHENYL PHENYL ETHER	VA	EPA 625	4-CHLORO-3-METHYLPHENOL	VA
EPA 625	4-CHLOROPHENYL PHENYLETHER	VA	EPA 625	4-NITROPHENOL	VA
EPA 625	ACENAPHTHENE	VA	EPA 625	ACENAPHTHYLENE	VA
EPA 625	ANTHRACENE	VA	EPA 625	BENZIDINE	VA
EPA 625	BENZO(A)ANTHRACENE	VA	EPA 625	BENZO(A)PYRENE	VA
EPA 625	BENZO(B)FLUORANTHENE	VA	EPA 625	BENZO(G,H,I)PERYLENE	VA
EPA 625	BENZO(K)FLUORANTHENE	VA	EPA 625	BIS(2-CHLOROETHOXY)METHANE	VA
EPA 625	BIS(2-CHLOROETHYL) ETHER	VA	EPA 625	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	VA
EPA 625	BUTYL BENZYL PHTHALATE	VA	EPA 625	CHRYSENE	VA
EPA 625	DI-N-BUTYL PHTHALATE	VA	EPA 625	DI-N-OCTYL PHTHALATE	VA
EPA 625	DIBENZO(A,H) ANTHRACENE	VA	EPA 625	DIETHYL PHTHALATE	VA
EPA 625	DIMETHYL PHTHALATE	VA	EPA 625	FLUORANTHENE	VA
EPA 625	FLUORENE	VA	EPA 625	HEXACHLOROBENZENE	VA
EPA 625	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA	EPA 625	HEXACHLOROCYCLOPENTADIENE	VA
EPA 625	HEXACHLOROETHANE	VA	EPA 625	INDENO(1,2,3-CD) PYRENE	VA
EPA 625	ISOPHORONE	VA	EPA 625	N-NITROSODI-N-PROPYLAMINE	VA
EPA 625	N-NITROSODIMETHYLAMINE	VA	EPA 625	N-NITROSODIPHENYLAMINE	VA
EPA 625	NAPHTHALENE	VA	EPA 625	NITROBENZENE	VA
EPA 625	PENTACHLOROPHENOL	VA	EPA 625	PHENANTHRENE	VA
EPA 625	PHENOL	VA	EPA 625	PYRENE	VA
EPA 625 - EXTENDED	1,2-DIPHENYLHYDRAZINE	VA	EPA 625 - EXTENDED	4-METHYLPHENOL (P-CRESOL)	VA
EPA 625 - EXTENDED	ALPHA-TERPINEOL	VA	EPA 625 - EXTENDED	BENZOIC ACID	VA
EPA 625 - EXTENDED	DINONYL PHTHALATE	VA	EPA 7010	ANTIMONY	VA
EPA 7010	ARSENIC	VA	EPA 7010	BERYLLIUM	VA
EPA 7010	CADMIUM	VA	EPA 7010	CHROMIUM	VA
EPA 7010	COPPER	VA	EPA 7010	LEAD	VA
EPA 7010	NICKEL	VA	EPA 7010	SELENIUM	VA
EPA 7010	SILVER	VA	EPA 7010	THALLIUM	VA
EPA 7196 A	CHROMIUM VI	VA	EPA 7470 A	MERCURY	VA
EPA 8011	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	VA			

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NON-POTABLE WATER

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EPA 8011	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	VA	EPA 8011 - EXTENDED	1,2,3-TRICHLOROPROPANE	VA
EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	VA	EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	VA
EPA 8015 C - EXTENDED	OIL RANGE ORGANICS	VA	EPA 8021 B	BENZENE	VA
EPA 8021 B	ETHYLBENZENE	VA	EPA 8021 B	M+P-XYLENE	VA
EPA 8021 B	NAPHTHALENE	VA	EPA 8021 B	O-XYLENE	VA
EPA 8021 B	TOLUENE	VA	EPA 8021 B	XYLENE (TOTAL)	VA
EPA 8021 B - EXTENDED	METHYL TERT-BUTYL ETHER (MTBE)	VA	EPA 8081 B	4,4'-DDD	VA
EPA 8081 B	4,4'-DDE	VA	EPA 8081 B	4,4'-DDT	VA
EPA 8081 B	ALDRIN	VA	EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	VA
EPA 8081 B	ALPHA-CHLORDANE [CIS-CHLORDANE]	VA	EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	VA
EPA 8081 B	CHLORDANE (TECH.)	VA	EPA 8081 B	DELTA-BHC	VA
EPA 8081 B	DIELDRIN	VA	EPA 8081 B	ENDOSULFAN I	VA
EPA 8081 B	ENDOSULFAN II	VA	EPA 8081 B	ENDOSULFAN SULFATE	VA
EPA 8081 B	ENDRIN	VA	EPA 8081 B	ENDRIN ALDEHYDE	VA
EPA 8081 B	ENDRIN KETONE	VA	EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	VA
EPA 8081 B	GAMMA-CHLORDANE [BETA-CHLORDANE, TRANS-CHLORDANE]	VA	EPA 8081 B	HEPTACHLOR	VA
EPA 8081 B	HEPTACHLOR EPOXIDE	VA	EPA 8081 B	METHOXYCHLOR	VA
EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHERE)	VA	EPA 8081 B - EXTENDED	MIREX	VA
EPA 8082 A	AROCLOR-1016 (PCB-1016)	VA	EPA 8082 A	AROCLOR-1221 (PCB-1221)	VA
EPA 8082 A	AROCLOR-1232 (PCB-1232)	VA	EPA 8082 A	AROCLOR-1242 (PCB-1242)	VA
EPA 8082 A	AROCLOR-1248 (PCB-1248)	VA	EPA 8082 A	AROCLOR-1254 (PCB-1254)	VA
EPA 8082 A	AROCLOR-1260 (PCB-1260)	VA	EPA 8082 A - EXTENDED	AROCLOR-1262 (PCB-1262)	VA
EPA 8082 A - EXTENDED	AROCLOR-1268 (PCB-1268)	VA	EPA 8151 A	2,4,5-T	VA
EPA 8151 A	2,4-D	VA	EPA 8151 A	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	VA
EPA 8151 A	PENTACHLOROPHENOL	VA	EPA 8151 A	SILVEX (2,4,5-TP)	VA
EPA 8260 B	1,1,1,2-TETRACHLOROETHANE	VA	EPA 8260 B	1,1,1-TRICHLOROETHANE	VA
EPA 8260 B	1,1,2,2-TETRACHLOROETHANE	VA	EPA 8260 B	1,1,2-TRICHLOROETHANE	VA
EPA 8260 B	1,1-DICHLOROETHANE	VA	EPA 8260 B	1,1-DICHLOROETHYLENE	VA
EPA 8260 B	1,1-DICHLOROPROPENE	VA	EPA 8260 B	1,2,3-TRICHLOROENZENE	VA
EPA 8260 B	1,2,3-TRICHLOROPROPANE	VA	EPA 8260 B	1,2,4-TRICHLOROENZENE	VA

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EPA 8260 B	1,2,4-TRIMETHYLBENZENE	VA	EPA 8260 B	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	VA
EPA 8260 B	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	VA	EPA 8260 B	1,2-DICHLOROBENZENE	VA
EPA 8260 B	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	VA	EPA 8260 B	1,2-DICHLOROPROPANE	VA
EPA 8260 B	1,3,5-TRIMETHYLBENZENE	VA	EPA 8260 B	1,3-DICHLOROBENZENE	VA
EPA 8260 B	1,3-DICHLOROPROPANE	VA	EPA 8260 B	1,4-DICHLOROBENZENE	VA
EPA 8260 B	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	VA	EPA 8260 B	2,2-DICHLOROPROPANE	VA
EPA 8260 B	2-BUTANONE (METHYL ETHYL KETONE, MEK)	VA	EPA 8260 B	2-CHLOROETHYL VINYL ETHER	VA
EPA 8260 B	2-CHLOROTOLUENE	VA	EPA 8260 B	2-HEXANONE	VA
EPA 8260 B	2-PICOLINE (2-METHYLPYRIDINE)	VA	EPA 8260 B	4-CHLOROTOLUENE	VA
EPA 8260 B	4-ISOPROPYLTOLUENE (P-CYMENE)	VA	EPA 8260 B	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	VA
EPA 8260 B	ACETONE	VA	EPA 8260 B	ACETONITRILE	VA
EPA 8260 B	ACROLEIN (PROPENAL)	VA	EPA 8260 B	ACRYLONITRILE	VA
EPA 8260 B	ALLYL CHLORIDE (3-CHLOROPROPENE)	VA	EPA 8260 B	BENZENE	VA
EPA 8260 B	BENZYL CHLORIDE	VA	EPA 8260 B	BROMOBENZENE	VA
EPA 8260 B	BROMOCHLOROMETHANE	VA	EPA 8260 B	BROMODICHLOROMETHANE	VA
EPA 8260 B	BROMOFORM	VA	EPA 8260 B	CARBON DISULFIDE	VA
EPA 8260 B	CARBON TETRACHLORIDE	VA	EPA 8260 B	CHLOROBENZENE	VA
EPA 8260 B	CHLORODIBROMOMETHANE	VA	EPA 8260 B	CHLOROETHANE (ETHYL CHLORIDE)	VA
EPA 8260 B	CHLOROFORM	VA	EPA 8260 B	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	VA
EPA 8260 B	CIS-1,2-DICHLOROETHYLENE	VA	EPA 8260 B	CIS-1,3-DICHLOROPROPENE	VA
EPA 8260 B	CIS-1,4-DICHLORO-2-BUTENE	VA	EPA 8260 B	DIBROMOFLUOROMETHANE	VA
EPA 8260 B	DIBROMOMETHANE (METHYLENE BROMIDE)	VA	EPA 8260 B	DICHLORODIFLUOROMETHANE (FREON-12)	VA
EPA 8260 B	DIETHYL ETHER	VA	EPA 8260 B	ETHANOL	VA
EPA 8260 B	ETHYL ACETATE	VA	EPA 8260 B	ETHYL METHACRYLATE	VA
EPA 8260 B	ETHYLBENZENE	VA	EPA 8260 B	ETHYLENE OXIDE	VA
EPA 8260 B	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA	EPA 8260 B	IODOMETHANE (METHYL IODIDE)	VA
EPA 8260 B	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	VA	EPA 8260 B	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	VA
EPA 8260 B	ISOPROPYLBENZENE	VA	EPA 8260 B	M+P-XYLENE	VA
EPA 8260 B	METHACRYLONITRILE	VA	EPA 8260 B	METHYL BROMIDE (BROMOMETHANE)	VA
EPA 8260 B	METHYL CHLORIDE (CHLOROMETHANE)	VA	EPA 8260 B	METHYL METHACRYLATE	VA

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 Expiration Date: June 14, 2017

NON-POTABLE WATER

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>	<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8260 B	METHYL TERT-BUTYL ETHER (MTBE)	VA	EPA 8260 B	METHYLENE CHLORIDE (DICHLOROMETHANE)	VA
EPA 8260 B	N-BUTYLBENZENE	VA	EPA 8260 B	N-PROPYLBENZENE	VA
EPA 8260 B	NAPHTHALENE	VA	EPA 8260 B	O-XYLENE	VA
EPA 8260 B	PENTACHLOROETHANE	VA	EPA 8260 B	PENTAFLUOROBENZENE	VA
EPA 8260 B	PROPIONITRILE (ETHYL CYANIDE)	VA	EPA 8260 B	SEC-BUTYLBENZENE	VA
EPA 8260 B	STYRENE	VA	EPA 8260 B	TERT-BUTYL ALCOHOL	VA
EPA 8260 B	TERT-BUTYLBENZENE	VA	EPA 8260 B	TETRACHLOROETHENE (PERCHLOROETHENE)	VA
EPA 8260 B	TOLUENE	VA	EPA 8260 B	TRANS-1,2-DICHLOROETHENE	VA
EPA 8260 B	TRANS-1,3-DICHLOROPROPENE	VA	EPA 8260 B	TRANS-1,4-DICHLORO-2-BUTENE	VA
EPA 8260 B	TRICHLOROETHENE (TRICHLOROETHYLENE)	VA	EPA 8260 B	TRICHLOROFUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	VA
EPA 8260 B	VINYL ACETATE	VA	EPA 8260 B	VINYL CHLORIDE	VA
EPA 8260 B	XYLENE (TOTAL)	VA	EPA 8260 B - EXTENDED	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)	VA
EPA 8260 B - EXTENDED	1,3,5-TRICHLOROBENZENE	VA	EPA 8260 B - EXTENDED	CYCLOHEXANE	VA
EPA 8260 B - EXTENDED	CYCLOHEXANONE	VA	EPA 8260 B - EXTENDED	DIISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	VA
EPA 8260 B - EXTENDED	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	VA	EPA 8260 B - EXTENDED	ISOPROPYL ACETATE	VA
EPA 8260 B - EXTENDED	METHYLCYCLOHEXANE	VA	EPA 8260 B - EXTENDED	N-HEXANE	VA
EPA 8260 B - EXTENDED	T-AMYL ALCOHOL (TAA)	VA	EPA 8260 B - EXTENDED	T-AMYL ETHYL ETHER (TAAE) (4,4-DIMETHYL-3-OXAHEXANE)	VA
EPA 8260 B - EXTENDED	T-AMYLMETHYLETHER (TAME)	VA	EPA 8260 B SIM	1,4-DIOXANE (P-DIOXANE / 1,4-DIETHYLENEOXIDE)	VA
EPA 8270 D	1,2,4,5-TETRACHLOROBENZENE	VA	EPA 8270 D	1,2,4-TRICHLOROBENZENE	VA
EPA 8270 D	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	VA	EPA 8270 D	1,2-DICHLOROBENZENE	VA
EPA 8270 D	1,2-DINITROBENZENE	VA	EPA 8270 D	1,2-DIPHENYLHYDRAZINE	VA
EPA 8270 D	1,3,5-TRINITROBENZENE (1,3,5-TNB)	VA	EPA 8270 D	1,3-DICHLOROBENZENE	VA
EPA 8270 D	1,3-DINITROBENZENE (1,3-DNB)	VA	EPA 8270 D	1,4-DICHLOROBENZENE	VA
EPA 8270 D	1,4-DINITROBENZENE	VA	EPA 8270 D	1,4-NAPHTHOQUINONE	VA
EPA 8270 D	1,4-PHENYLENEDIAMINE	VA	EPA 8270 D	1-CHLORONAPHTHALENE	VA
EPA 8270 D	1-NAPHTHYLAMINE	VA	EPA 8270 D	2,2'-OXYBIS(1-CHLOROPROPANE)	VA
EPA 8270 D	2,3,4,6-TETRACHLOROPHENOL	VA	EPA 8270 D	2,4,5-TRICHLOROPHENOL	VA
EPA 8270 D	2,4,6-TRICHLOROPHENOL	VA	EPA 8270 D	2,4-DICHLOROPHENOL	VA
EPA 8270 D	2,4-DIMETHYLPHENOL	VA	EPA 8270 D	2,4-DINITROPHENOL	VA
EPA 8270 D	2,4-DINITROTOLUENE (2,4-DNT)	VA	EPA 8270 D	2,6-DICHLOROPHENOL	VA
EPA 8270 D	2,6-DINITROTOLUENE (2,6-DNT)	VA	EPA 8270 D	2-ACETYLAMINOFLUORENE	VA
EPA 8270 D	2-CHLORONAPHTHALENE	VA			

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Commonwealth of Virginia
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Scope of Accreditation

VELAP Certificate No.: 8886

Air Water & Soil Laboratories, Inc.
 1941 Reymet Road
 Richmond, VA 23237

Virginia Laboratory ID: 460021
 Effective Date: October 28, 2016
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NON-POTABLE WATER

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>	<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8270 D	2-CHLOROPHENOL	VA	EPA 8270 D	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	VA
EPA 8270 D	2-METHYLNAPHTHALENE	VA	EPA 8270 D	2-METHYLPHENOL (O-CRESOL)	VA
EPA 8270 D	2-NAPHTHYLAMINE	VA	EPA 8270 D	2-NITROANILINE	VA
EPA 8270 D	2-NITROPHENOL	VA	EPA 8270 D	2-PICOLINE (2-METHYLPYRIDINE)	VA
EPA 8270 D	3,3'-DICHLOROBENZIDINE	VA	EPA 8270 D	3,3'-DIMETHYLBENZIDINE	VA
EPA 8270 D	3-METHYLCHOLANTHRENE	VA	EPA 8270 D	3-METHYLPHENOL (M-CRESOL)	VA
EPA 8270 D	3-NITROANILINE	VA	EPA 8270 D	4,4'-METHYLENEBIS(2-CHLOROANIL INE)	VA
EPA 8270 D	4,4'-METHYLENEBIS(N, N-DIMETHYLANILINE)	VA	EPA 8270 D	4-AMINOBIIPHENYL	VA
EPA 8270 D	4-BROMOPHENYL PHENYL ETHER	VA	EPA 8270 D	4-CHLORO-3-METHYLPHENOL	VA
EPA 8270 D	4-CHLOROANILINE	VA	EPA 8270 D	4-CHLOROPHENYL PHENYLETHER	VA
EPA 8270 D	4-DIMETHYL AMINOAZOBENZENE	VA	EPA 8270 D	4-METHYLPHENOL (P-CRESOL)	VA
EPA 8270 D	4-NITROANILINE	VA	EPA 8270 D	4-NITROPHENOL	VA
EPA 8270 D	4-NITROQUINOLINE-1-OXIDE	VA	EPA 8270 D	5-NITRO-O-TOLUIDINE	VA
EPA 8270 D	7,12-DIMETHYLBENZ(A) ANTHRACENE	VA	EPA 8270 D	A-A-DIMETHYLPHENETHYLAMINE	VA
EPA 8270 D	ACENAPHTHENE	VA	EPA 8270 D	ACENAPHTHYLENE	VA
EPA 8270 D	ACETOPHENONE	VA	EPA 8270 D	ANILINE	VA
EPA 8270 D	ANTHRACENE	VA	EPA 8270 D	ARAMITE	VA
EPA 8270 D	AZINPHOS-METHYL (GUTHION)	VA	EPA 8270 D	BENZIDINE	VA
EPA 8270 D	BENZO(A)ANTHRACENE	VA	EPA 8270 D	BENZO(A)PYRENE	VA
EPA 8270 D	BENZO(B)FLUORANTHENE	VA	EPA 8270 D	BENZO(G,H,I)PERYLENE	VA
EPA 8270 D	BENZO(K)FLUORANTHENE	VA	EPA 8270 D	BENZOIC ACID	VA
EPA 8270 D	BENZYL ALCOHOL	VA	EPA 8270 D	BIS(2-CHLOROETHOXY)METHANE	VA
EPA 8270 D	BIS(2-CHLOROETHYL) ETHER	VA	EPA 8270 D	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	VA
EPA 8270 D	BUTYL BENZYL PHTHALATE	VA	EPA 8270 D	CHLOROBENZILATE	VA
EPA 8270 D	CHRYSENE	VA	EPA 8270 D	DI-N-BUTYL PHTHALATE	VA
EPA 8270 D	DI-N-OCTYL PHTHALATE	VA	EPA 8270 D	DIALLATE	VA
EPA 8270 D	DIBENZ(A, J) ACRIDINE	VA	EPA 8270 D	DIBENZO(A,H) ANTHRACENE	VA
EPA 8270 D	DIBENZOFURAN	VA	EPA 8270 D	DIETHYL PHTHALATE	VA
EPA 8270 D	DIMETHOATE	VA	EPA 8270 D	DIMETHYL PHTHALATE	VA
EPA 8270 D	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	VA	EPA 8270 D	DIPHENYLAMINE	VA
EPA 8270 D	DISULFOTON	VA	EPA 8270 D	ETHYL METHANESULFONATE	VA
EPA 8270 D	FAMPHUR	VA	EPA 8270 D	FLUORANTHENE	VA
EPA 8270 D	FLUORENE	VA	EPA 8270 D	HEXACHLOROBENZENE	VA

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 1941 Reymet Road
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NON-POTABLE WATER

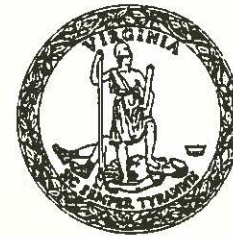
<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8270 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA
EPA 8270 D	HEXACHLOROETHANE	VA
EPA 8270 D	HEXACHLOROPROPENE	VA
EPA 8270 D	ISODRIN	VA
EPA 8270 D	ISOSAFROLE	VA
EPA 8270 D	MALATHION	VA
EPA 8270 D	METHYL METHANESULFONATE	VA
EPA 8270 D	N-NITROSO-DI-N-BUTYLAMINE	VA
EPA 8270 D	N-NITROSODIETHYLAMINE	VA
EPA 8270 D	N-NITROSODIPHENYLAMINE	VA
EPA 8270 D	N-NITROSOMORPHOLINE	VA
EPA 8270 D	N-NITROSOPYRROLIDINE	VA
EPA 8270 D	NICOTINE	VA
EPA 8270 D	O,O,O-TRIETHYL PHOSPHOROTHIOATE	VA
EPA 8270 D	PARATHION (PARATHION - ETHYL)	VA
EPA 8270 D	PENTACHLORONITROBENZENE	VA
EPA 8270 D	PHENACETIN	VA
EPA 8270 D	PHENOL	VA
EPA 8270 D	PRONAMIDE (KERB)	VA
EPA 8270 D	SAFROLE	VA
EPA 8270 D - EXTENDED	1,1'-BIPHENYL	VA
EPA 8270 D - EXTENDED	CARBAZOLE	VA
EPA 8270 D - EXTENDED	PYRIDINE	VA
EPA 9020 B	TOTAL ORGANIC HALIDES (TOX)	VA
EPA 9034	TOTAL SULFIDES	VA
EPA 9065	TOTAL PHENOLICS	VA
NCASI METHOD COLOR 71.01	COLOR	VA
RSK-175	ETHENE (ETHYLENE)	VA
SM 2130 B-2011	TURBIDITY	VA
SM 2320 B-2011	ALKALINITY AS CaCO3	VA
SM 2510 B-2011	CONDUCTIVITY	VA
SM 2540 C-2011	RESIDUE-FILTERABLE (TDS)	VA
SM 2540 F-2011	RESIDUE-SETTLABLE	VA
SM 4500-CN ⁻ E-2011	CYANIDE	VA
SM 4500-NO3 ⁻ F-2011	NITRATE/NITRITE	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8270 D	HEXACHLOROCYCLOPENTADIENE	VA
EPA 8270 D	HEXACHLOROPHENE	VA
EPA 8270 D	INDENO(1,2,3-CD) PYRENE	VA
EPA 8270 D	ISOPHORONE	VA
EPA 8270 D	KEPONE	VA
EPA 8270 D	METHAPYRILENE	VA
EPA 8270 D	METHYL PARATHION (PARATHION, METHYL)	VA
EPA 8270 D	N-NITROSODI-N-PROPYLAMINE	VA
EPA 8270 D	N-NITROSODIMETHYLAMINE	VA
EPA 8270 D	N-NITROSOMETHYLETHYLAMINE	VA
EPA 8270 D	N-NITROSOPIPERIDINE	VA
EPA 8270 D	NAPHTHALENE	VA
EPA 8270 D	NITROBENZENE	VA
EPA 8270 D	O-TOLUIDINE (2-METHYLANILINE)	VA
EPA 8270 D	PENTACHLOROBENZENE	VA
EPA 8270 D	PENTACHLOROPHENOL	VA
EPA 8270 D	PHENANTHRENE	VA
EPA 8270 D	PHORATE	VA
EPA 8270 D	PYRENE	VA
EPA 8270 D	THIONAZIN (ZINOPHOS)	VA
EPA 8270 D - EXTENDED	AZOBENZENE	VA
EPA 8270 D - EXTENDED	DINONYL PHTHALATE	VA
EPA 9012 B	TOTAL CYANIDE	VA
EPA 9030 B	PREP. SULFIDE	VA
EPA 9060 A	TOTAL ORGANIC CARBON	VA
EPA 9215	SULFIDE	VA
RSK-175	ETHANE	VA
RSK-175	METHANE	VA
SM 2310 B-2011	ACIDITY, AS CaCO3	VA
SM 2340 B-2011	TOTAL HARDNESS AS CaCO3	VA
SM 2540 B-2011	RESIDUE-TOTAL	VA
SM 2540 D-2011	RESIDUE-NONFILTERABLE (TSS)	VA
SM 3500-CR B-2011	CHROMIUM VI	VA
SM 4500-NO2 ⁻ B-2011	NITRITE AS N	VA
SM 4500-NO3 ⁻ F-2011 MINUS SM 4500-NO2 ⁻ B-2011 (CALC)	NITRATE AS N	VA

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SM 4500-P E-2011	ORTHOPHOSPHATE AS P	VA
SM 4500-S2 ⁻ F-2011	SULFIDE	VA
SM 5210 B-2011	CARBONACEOUS BOD, CBOD	VA
SM 5310 C-2011	TOTAL ORGANIC CARBON	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
SM 4500-P E-2011	PHOSPHORUS, TOTAL	VA
SM 5210 B-2011	BIOCHEMICAL OXYGEN DEMAND	VA
SM 5220 D-2011	CHEMICAL OXYGEN DEMAND	VA
SM 9221 E + C-2006	FECAL COLIFORMS	VA

SOLID AND CHEMICAL MATERIALS

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 1010 A	FLASHPOINT	VA
EPA 1312	PREP: SYNTHETIC PRECIPITATION LEACHING PROCEDURE	VA
EPA 350.1 REV 2	AMMONIA AS N	VA
EPA 3550 C	PREP: ULTRASONIC EXTRACTION	VA
EPA 3585	PREP: WASTE DILUTION FOR VOLATILE ORGANICS	VA
EPA 5035	PREP: CLOSED-SYSTEM PURGE AND TRAP AND EXTRACTION	VA
EPA 6010 C	ANTIMONY	VA
EPA 6010 C	BARIUM	VA
EPA 6010 C	BORON	VA
EPA 6010 C	CALCIUM	VA
EPA 6010 C	COBALT	VA
EPA 6010 C	IRON	VA
EPA 6010 C	MAGNESIUM	VA
EPA 6010 C	MOLYBDENUM	VA
EPA 6010 C	POTASSIUM	VA
EPA 6010 C	SILICA AS SIO ₂	VA
EPA 6010 C	SODIUM	VA
EPA 6010 C	THALLIUM	VA
EPA 6010 C	TITANIUM	VA
EPA 6010 C	ZINC	VA
EPA 7010	ARSENIC	VA
EPA 7010	CADMIUM	VA
EPA 7010	COPPER	VA
EPA 7010	NICKEL	VA
EPA 7010	THALLIUM	VA
EPA 7471 B	MERCURY	VA
EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	VA
EPA 8021 B	BENZENE	VA
EPA 8021 B	M+P-XYLENE	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 1311	PREP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE	VA
EPA 3050	PREP: ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS	VA
EPA 351.2 REV 2	KJELDAHL NITROGEN - TOTAL	VA
EPA 3580 A	PREP: WASTE DILUTION	VA
EPA 3665 A	SULFURIC ACID/PERMANGANATE CLEAN-UP	VA
EPA 6010 C	ALUMINIUM	VA
EPA 6010 C	ARSENIC	VA
EPA 6010 C	BERYLLIUM	VA
EPA 6010 C	CADMIUM	VA
EPA 6010 C	CHROMIUM	VA
EPA 6010 C	COPPER	VA
EPA 6010 C	LEAD	VA
EPA 6010 C	MANGANESE	VA
EPA 6010 C	NICKEL	VA
EPA 6010 C	SELENIUM	VA
EPA 6010 C	SILVER	VA
EPA 6010 C	STRONTIUM	VA
EPA 6010 C	TIN	VA
EPA 6010 C	VANADIUM	VA
EPA 7010	ANTIMONY	VA
EPA 7010	BERYLLIUM	VA
EPA 7010	CHROMIUM	VA
EPA 7010	LEAD	VA
EPA 7010	SELENIUM	VA
EPA 7196 A	CHROMIUM VI	VA
EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	VA
EPA 8015 C - EXTENDED	OIL RANGE ORGANICS	VA
EPA 8021 B	ETHYLBENZENE	VA

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SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8021 B	NAPHTHALENE	VA
EPA 8021 B	TOLUENE	VA
EPA 8021 B - EXTENDED	METHYL TERT-BUTYL ETHER (MTBE)	VA
EPA 8081 B	4,4'-DDE	VA
EPA 8081 B	ALDRIN	VA
EPA 8081 B	ALPHA-CHLORDANE [CIS-CHLORDANE]	VA
EPA 8081 B	CHLORDANE (TECH.)	VA
EPA 8081 B	DIELDRIN	VA
EPA 8081 B	ENDOSULFAN II	VA
EPA 8081 B	ENDRIN	VA
EPA 8081 B	ENDRIN KETONE	VA
EPA 8081 B	GAMMA-CHLORDANE [BETA-CHLORDANE, TRANS-CHLORDANE]	VA
EPA 8081 B	HEPTACHLOR EPOXIDE	VA
EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHENE)	VA
EPA 8082 A	AROCLOR-1016 (PCB-1016)	VA
EPA 8082 A	AROCLOR-1232 (PCB-1232)	VA
EPA 8082 A	AROCLOR-1248 (PCB-1248)	VA
EPA 8082 A	AROCLOR-1260 (PCB-1260)	VA
EPA 8082 A - EXTENDED	AROCLOR-1268 (PCB-1268)	VA
EPA 8151 A	2,4-D	VA
EPA 8151 A	PENTACHLOROPHENOL	VA
EPA 8260 B	1,1,1,2-TETRACHLOROETHANE	VA
EPA 8260 B	1,1,2,2-TETRACHLOROETHANE	VA
EPA 8260 B	1,1-DICHLOROETHANE	VA
EPA 8260 B	1,1-DICHLOROPROPENE	VA
EPA 8260 B	1,2,3-TRICHLOROPROPANE	VA
EPA 8260 B	1,2,4-TRIMETHYLBENZENE	VA
EPA 8260 B	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	VA
EPA 8260 B	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	VA
EPA 8260 B	1,3,5-TRIMETHYLBENZENE	VA

METHOD	ANALYTE	PRIMARY
EPA 8021 B	O-XYLENE	VA
EPA 8021 B	XYLENE (TOTAL)	VA
EPA 8081 B	4,4'-DDD	VA
EPA 8081 B	4,4'-DDT	VA
EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	VA
EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	VA
EPA 8081 B	DELTA-BHC	VA
EPA 8081 B	ENDOSULFAN I	VA
EPA 8081 B	ENDOSULFAN SULFATE	VA
EPA 8081 B	ENDRIN ALDEHYDE	VA
EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	VA
EPA 8081 B	HEPTACHLOR	VA
EPA 8081 B	METHOXYCHLOR	VA
EPA 8081 B - EXTENDED	MIREX	VA
EPA 8082 A	AROCLOR-1221 (PCB-1221)	VA
EPA 8082 A	AROCLOR-1242 (PCB-1242)	VA
EPA 8082 A	AROCLOR-1254 (PCB-1254)	VA
EPA 8082 A - EXTENDED	AROCLOR-1262 (PCB-1262)	VA
EPA 8151 A	2,4,5-T	VA
EPA 8151 A	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	VA
EPA 8151 A	SILVEX (2,4,5-TP)	VA
EPA 8260 B	1,1,1-TRICHLOROETHANE	VA
EPA 8260 B	1,1,2-TRICHLOROETHANE	VA
EPA 8260 B	1,1-DICHLOROETHYLENE	VA
EPA 8260 B	1,2,3-TRICHLOROBENZENE	VA
EPA 8260 B	1,2,4-TRICHLOROBENZENE	VA
EPA 8260 B	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	VA
EPA 8260 B	1,2-DICHLOROBENZENE	VA
EPA 8260 B	1,2-DICHLOROPROPANE	VA

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SOLID AND CHEMICAL MATERIALS

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8260 B	1,3-DICHLOROBENZENE	VA
EPA 8260 B	1,4-DICHLOROBENZENE	VA
EPA 8260 B	2,2-DICHLOROPROPANE	VA
EPA 8260 B	2-CHLOROTOLUENE	VA
EPA 8260 B	4-CHLOROTOLUENE	VA
EPA 8260 B	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	VA
EPA 8260 B	ACETONITRILE	VA
EPA 8260 B	ACRYLONITRILE	VA
EPA 8260 B	BENZENE	VA
EPA 8260 B	BROMOCHLOROMETHANE	VA
EPA 8260 B	BROMOFORM	VA
EPA 8260 B	CARBON TETRACHLORIDE	VA
EPA 8260 B	CHLORODIBROMOMETHANE	VA
EPA 8260 B	CHLOROFORM	VA
EPA 8260 B	CIS-1,2-DICHLOROETHYLENE	VA
EPA 8260 B	DIBROMOFLUOROMETHANE	VA
EPA 8260 B	DICHLORODIFLUOROMETHANE (FREON-12)	VA
EPA 8260 B	ETHYL METHACRYLATE	VA
EPA 8260 B	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA
EPA 8260 B	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	VA
EPA 8260 B	M+P-XYLENE	VA
EPA 8260 B	METHYL BROMIDE (BROMOMETHANE)	VA
EPA 8260 B	METHYL METHACRYLATE	VA
EPA 8260 B	METHYLENE CHLORIDE (DICHLOROMETHANE)	VA
EPA 8260 B	N-PROPYLBENZENE	VA
EPA 8260 B	O-XYLENE	VA
EPA 8260 B	PENTAFLUOROBENZENE	VA
EPA 8260 B	SEC-BUTYLBENZENE	VA
EPA 8260 B	TERT-BUTYL ALCOHOL	VA
EPA 8260 B	TETRACHLOROETHENE (PERCHLOROETHENE)	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8260 B	1,3-DICHLOROPROPANE	VA
EPA 8260 B	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	VA
EPA 8260 B	2-BUTANONE (METHYL ETHYL KETONE, MEK)	VA
EPA 8260 B	2-HEXANONE	VA
EPA 8260 B	4-ISOPROPYLTOLUENE (P-CYMENE)	VA
EPA 8260 B	ACETONE	VA
EPA 8260 B	ACROLEIN (PROPENAL)	VA
EPA 8260 B	ALLYL CHLORIDE (3-CHLOROPROPENE)	VA
EPA 8260 B	BROMOBENZENE	VA
EPA 8260 B	BROMODICHLOROMETHANE	VA
EPA 8260 B	CARBON DISULFIDE	VA
EPA 8260 B	CHLOROBENZENE	VA
EPA 8260 B	CHLOROETHANE (ETHYL CHLORIDE)	VA
EPA 8260 B	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	VA
EPA 8260 B	CIS-1,3-DICHLOROPROPENE	VA
EPA 8260 B	DIBROMOMETHANE (METHYLENE BROMIDE)	VA
EPA 8260 B	ETHANOL	VA
EPA 8260 B	ETHYLBENZENE	VA
EPA 8260 B	IODOMETHANE (METHYL IODIDE)	VA
EPA 8260 B	ISOPROPYLBENZENE	VA
EPA 8260 B	METHACRYLONITRILE	VA
EPA 8260 B	METHYL CHLORIDE (CHLOROMETHANE)	VA
EPA 8260 B	METHYL TERT-BUTYL ETHER (MTBE)	VA
EPA 8260 B	N-BUTYLBENZENE	VA
EPA 8260 B	NAPHTHALENE	VA
EPA 8260 B	PENTACHLOROETHANE	VA
EPA 8260 B	PROPIONITRILE (ETHYL CYANIDE)	VA
EPA 8260 B	STYRENE	VA
EPA 8260 B	TERT-BUTYLBENZENE	VA
EPA 8260 B	TOLUENE	VA

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Virginia Laboratory ID: 460021
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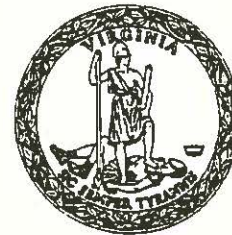
SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 8260 B	TRANS-1,2-DICHLOROETHENE	VA	EPA 8260 B	TRANS-1,3-DICHLOROPROPENE	VA
EPA 8260 B	TRANS-1,4-DICHLORO-2-BUTENE	VA	EPA 8260 B	TRICHLOROETHENE (TRICHLOROETHYLENE)	VA
EPA 8260 B	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	VA	EPA 8260 B	VINYL ACETATE	VA
EPA 8260 B	VINYL CHLORIDE	VA	EPA 8260 B	XYLENE (TOTAL)	VA
EPA 8260 B - EXTENDED	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)	VA	EPA 8260 B - EXTENDED	1,3,5-TRICHLOROBENZENE	VA
EPA 8260 B - EXTENDED	CYCLOHEXANE	VA	EPA 8260 B - EXTENDED	CYCLOHEXANONE	VA
EPA 8260 B - EXTENDED	DIISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	VA	EPA 8260 B - EXTENDED	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	VA
EPA 8260 B - EXTENDED	ISOPROPYL ACETATE	VA	EPA 8260 B - EXTENDED	METHYLCYCLOHEXANE	VA
EPA 8260 B - EXTENDED	N-HEXANE	VA	EPA 8260 B - EXTENDED	T-AMYL ALCOHOL (TAA)	VA
EPA 8260 B - EXTENDED	T-AMYL ETHYL ETHER (TAAE) (4,4-DIMETHYL-3-OXAHEXANE)	VA	EPA 8260 B - EXTENDED	T-AMYLMETHYLETHER (TAME)	VA
EPA 8270 D	1,2,4,5-TETRACHLOROBENZENE	VA	EPA 8270 D	1,2,4-TRICHLOROBENZENE	VA
EPA 8270 D	1,2-DICHLOROBENZENE	VA	EPA 8270 D	1,2-DINITROBENZENE	VA
EPA 8270 D	1,3,5-TRINITROBENZENE (1,3,5-TNB)	VA	EPA 8270 D	1,3-DICHLOROBENZENE	VA
EPA 8270 D	1,3-DINITROBENZENE (1,3-DNB)	VA	EPA 8270 D	1,4-DICHLOROBENZENE	VA
EPA 8270 D	1,4-DINITROBENZENE	VA	EPA 8270 D	1,4-NAPHTHOQUINONE	VA
EPA 8270 D	1,4-PHENYLENEDIAMINE	VA	EPA 8270 D	1-CHLORONAPHTHALENE	VA
EPA 8270 D	1-NAPHTHYLAMINE	VA	EPA 8270 D	2,2'-OXYBIS(1-CHLOROPROPANE)	VA
EPA 8270 D	2,3,4,6-TETRACHLOROPHENOL	VA	EPA 8270 D	2,4,5-TRICHLOROPHENOL	VA
EPA 8270 D	2,4,5-TRIMETHYLANILINE	VA	EPA 8270 D	2,4,6-TRICHLOROPHENOL	VA
EPA 8270 D	2,4-DICHLOROPHENOL	VA	EPA 8270 D	2,4-DIMETHYLPHENOL	VA
EPA 8270 D	2,4-DINITROPHENOL	VA	EPA 8270 D	2,4-DINITROTOLUENE (2,4-DNT)	VA
EPA 8270 D	2,6-DICHLOROPHENOL	VA	EPA 8270 D	2,6-DINITROTOLUENE (2,6-DNT)	VA
EPA 8270 D	2-ACETYLAMINOFLUORENE	VA	EPA 8270 D	2-CHLORONAPHTHALENE	VA
EPA 8270 D	2-CHLOROPHENOL	VA	EPA 8270 D	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	VA
EPA 8270 D	2-METHYLNAPHTHALENE	VA	EPA 8270 D	2-METHYLPHENOL (O-CRESOL)	VA
EPA 8270 D	2-NAPHTHYLAMINE	VA	EPA 8270 D	2-NITROANILINE	VA
EPA 8270 D	2-NITROPHENOL	VA	EPA 8270 D	2-PICOLINE (2-METHYLPYRIDINE)	VA
EPA 8270 D	3,3'-DICHLOROBENZIDINE	VA	EPA 8270 D	3,3'-DIMETHYLBENZIDINE	VA
EPA 8270 D	3-METHYLCHOLANTHRENE	VA	EPA 8270 D	3-METHYLPHENOL (M-CRESOL)	VA
EPA 8270 D	3-NITROANILINE	VA	EPA 8270 D	4,4'-METHYLENEBIS(2-CHLOROANILINE)	VA
EPA 8270 D	4-AMINOBIIPHENYL	VA	EPA 8270 D	4-BROMOPHENYL PHENYL ETHER	VA
EPA 8270 D	4-CHLORO-3-METHYLPHENOL	VA	EPA 8270 D	4-CHLOROANILINE	VA
EPA 8270 D	4-CHLOROPHENYL PHENYLETHER	VA	EPA 8270 D	4-DIMETHYL AMINOAZOBENZENE	VA

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SOLID AND CHEMICAL MATERIALS

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>	<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8270 D	4-METHYLPHENOL (P-CRESOL)	VA	EPA 8270 D	4-NITROANILINE	VA
EPA 8270 D	4-NITROPHENOL	VA	EPA 8270 D	4-NITROQUINOLINE-1-OXIDE	VA
EPA 8270 D	5-NITRO-O-TOLUIDINE	VA	EPA 8270 D	7,12-DIMETHYLBENZ(A) ANTHRACENE	VA
EPA 8270 D	ACENAPHTHENE	VA	EPA 8270 D	ACENAPHTHYLENE	VA
EPA 8270 D	ACETOPHENONE	VA	EPA 8270 D	AMINOAZOBENZENE	VA
EPA 8270 D	ANILINE	VA	EPA 8270 D	ANTHRACENE	VA
EPA 8270 D	ARAMITE	VA	EPA 8270 D	AZINPHOS-METHYL (GUTHION)	VA
EPA 8270 D	BENZIDINE	VA	EPA 8270 D	BENZO(A)ANTHRACENE	VA
EPA 8270 D	BENZO(A)PYRENE	VA	EPA 8270 D	BENZO(B)FLUORANTHENE	VA
EPA 8270 D	BENZO(G,H,I)PERYLENE	VA	EPA 8270 D	BENZO(K)FLUORANTHENE	VA
EPA 8270 D	BENZOIC ACID	VA	EPA 8270 D	BENZYL ALCOHOL	VA
EPA 8270 D	BIS(2-CHLOROETHOXY)METHANE	VA	EPA 8270 D	BIS(2-CHLOROETHYL) ETHER	VA
EPA 8270 D	BIS(2-ETHYLHEXYL) PHTHALATE (D(2-ETHYLHEXYL)PHTHALATE), (DEHP)	VA	EPA 8270 D	BUTYL BENZYL PHTHALATE	VA
EPA 8270 D	CARBOFURAN (FURADEN)	VA	EPA 8270 D	CHLOROBENZILATE	VA
EPA 8270 D	CHRYSENE	VA	EPA 8270 D	DI-N-BUTYL PHTHALATE	VA
EPA 8270 D	DI-N-OCTYL PHTHALATE	VA	EPA 8270 D	DIALLATE	VA
EPA 8270 D	DIBENZ(A, J) ACRIDINE	VA	EPA 8270 D	DIBENZO(A,H) ANTHRACENE	VA
EPA 8270 D	DIBENZOFURAN	VA	EPA 8270 D	DIETHYL PHTHALATE	VA
EPA 8270 D	DIMETHOATE	VA	EPA 8270 D	DIMETHYL PHTHALATE	VA
EPA 8270 D	DIPHENYLAMINE	VA	EPA 8270 D	DISULFOTON	VA
EPA 8270 D	ETHYL METHANESULFONATE	VA	EPA 8270 D	FAMPHUR	VA
EPA 8270 D	FLUORANTHENE	VA	EPA 8270 D	FLUORENE	VA
EPA 8270 D	HEXACHLOROENZENE	VA	EPA 8270 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA
EPA 8270 D	HEXACHLOROCYCLOPENTADIENE	VA	EPA 8270 D	HEXACHLOROETHANE	VA
EPA 8270 D	HEXACHLOROPHENE	VA	EPA 8270 D	HEXACHLOROPROPENE	VA
EPA 8270 D	INDENO(1,2,3-CD) PYRENE	VA	EPA 8270 D	ISODRIN	VA
EPA 8270 D	ISOPHORONE	VA	EPA 8270 D	ISOSAFROLE	VA
EPA 8270 D	KEPONE	VA	EPA 8270 D	MALATHION	VA
EPA 8270 D	METHAPYRILENE	VA	EPA 8270 D	METHYL METHANESULFONATE	VA
EPA 8270 D	METHYL PARATHION (PARATHION, METHYL)	VA	EPA 8270 D	N-NITROSO-DI-N-BUTYLAMINE	VA
EPA 8270 D	N-NITROSODI-N-PROPYLAMINE	VA	EPA 8270 D	N-NITROSODIETHYLAMINE	VA
EPA 8270 D	N-NITROSODIMETHYLAMINE	VA	EPA 8270 D	N-NITROSODIPHENYLAMINE	VA
EPA 8270 D	N-NITROSOMETHYLETHYLAMINE	VA	EPA 8270 D	N-NITROSOMORPHOLINE	VA
EPA 8270 D	N-NITROSOPIPERIDINE	VA	EPA 8270 D	N-NITROSOPYRROLIDINE	VA
EPA 8270 D	NAPHTHALENE	VA	EPA 8270 D	NICOTINE	VA
EPA 8270 D	NITROBENZENE	VA			

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<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8270 D	O,O,O-TRIETHYL PHOSPHOROTHIOATE	VA
EPA 8270 D	PARATHION (PARATHION - ETHYL)	VA
EPA 8270 D	PENTACHLOROPHENOL	VA
EPA 8270 D	PHENANTHRENE	VA
EPA 8270 D	PHORATE	VA
EPA 8270 D	PYRENE	VA
EPA 8270 D	THIONAZIN (ZINOPHOS)	VA
EPA 8270 D - EXTENDED	CARBAZOLE	VA
EPA 9012 B	TOTAL CYANIDE	VA
EPA 9023	EXTRACTABLE ORGANIC HALIDES (EOX)	VA
EPA 9034	TOTAL SULFIDES	VA
EPA 9056 A	BROMIDE	VA
EPA 9056 A	FLUORIDE	VA
EPA 9056 A	NITRITE	VA
EPA 9056 A	SULFATE	VA
EPA 9065	TOTAL PHENOLICS	VA
SM 2320 B-2011	ALKALINITY AS CaCO ₃	VA
SM 2540 G-2011	RESIDUE-VOLATILE	VA
SM 4500-NO ₃ ⁻ F-2011	NITRATE/NITRITE	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8270 D	O-TOLUIDINE (2-METHYLANILINE)	VA
EPA 8270 D	PENTACHLOROBENZENE	VA
EPA 8270 D	PHENACETIN	VA
EPA 8270 D	PHENOL	VA
EPA 8270 D	PRONAMIDE (KERB)	VA
EPA 8270 D	SAFROLE	VA
EPA 8270 D - EXTENDED	AZOBENZENE	VA
EPA 8270 D - EXTENDED	PYRIDINE	VA
EPA 9020 B	TOTAL ORGANIC HALIDES (TOX)	VA
EPA 9030 B	PREP: SULFIDE	VA
EPA 9045 C	PH	VA
EPA 9056 A	CHLORIDE	VA
EPA 9056 A	NITRATE AS N	VA
EPA 9056 A	ORTHOPHOSPHATE AS P	VA
EPA 9060 A	TOTAL ORGANIC CARBON	VA
EPA 9095 B	FREE LIQUID	VA
SM 2540 G-2011	RESIDUE-TOTAL	VA
SM 4500-CN ⁻ E-2011	CYANIDE	VA
SM 4500-P E-2011	PHOSPHORUS, TOTAL	VA

APPENDIX G

SOIL AND GROUNDWATER SCREENING LEVEL EXCEEDANCES

Soil Screening Level Exceedences

Parameter	CAS	Reference Method	LOQ range (ug/L)	Residential Tier II		Industrial Tier III	
				Screening Level	Instances of LOQ>SL	Screening Level	Instances of LOQ>SL
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	0.247-0.25	0.0434	2	88	0
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	0.247-0.25	0.00595	2	27	0
1,1,2-Trichloroethane	79-00-5	SW8260B	0.247-0.25	0.0324	2	0.63	0
1,1-Dichloroethane	75-34-3	SW8260B	0.247-0.250	0.159	2		n/a
1,1-Dichloroethylene	75-35-4	SW8260B	0.247-0.25	0.0499	2	100	0
1,2,4,5-Tetrachlorobenzene	95-94-3	SW8270D	3.83-3.88	0.0158	2	35	0
1,2,4-Trimethylbenzene	95-63-6	SW8260B	0.247-0.25	0.0435	2	180	0
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	0.247-0.25	0.000282	2	1.6	0
1,2-Dichloroethane	107-06-2	SW8260B	0.247-0.25	0.0283	2	14	0
1,2-Dichloropropane	78-87-5	SW8260B	0.247-0.25	0.0331	2	6.6	0
1,2-Diphenylhydrazine	122-66-7	SW8270D	3.83-3.88	0.0501	2	29	0
2,3,4,6-Tetrachlorophenol	58-90-2	SW8270D	3.83-3.88	0.365	2	2500	0
2,4-Dichlorophenol	120-83-2	SW8270D	3.83-3.88	0.0454	2	250	0
2,4-Dimethylphenol	105-67-9	SW8270D	3.83-3.88	0.852	2	1600	0
2,4-Dinitrophenol	51-28-5	SW8270D	3.83-3.88	0.0875	0	160	0
2,4-Dinitrotoluene	121-14-2	SW8270D	3.83-3.88	0.0649	2	74	0
2,6-Dinitrotoluene	606-20-2	SW8270D	3.83-3.88	0.0135	2	15	0
2-Chlorophenol	95-57-8	SW8270D	3.83-3.88	0.178	2	580	0
2-Hexanone (MBK)	591-78-6	SW8260B	0.247-0.25	0.0175	2	130	0
2-Methylnaphthalene	91-57-6	SW8270D	3.83-3.88	0.371	2	300	0
2-Naphthylamine	91-59-8	SW8270D	3.83-3.88	0.0402	2	13	0
2-Nitroaniline	88-74-4	SW8270D	3.83-3.88	0.161	2	800	0
3,3'-Dichlorobenzidine	91-94-1	SW8270D	3.83-3.88	0.171	2	51	0
3-Methylcholanthrene	56-49-5	SW8270D	3.83-3.88	0.055	2	1	2
4-Aminobiphenyl	92-67-1	SW8270D	3.83-3.88	0.00309	2	1.1	2
4-Chloroaniline	106-47-8	SW8270D	3.83-3.88	0.0315	2	110	0
4-Nitroaniline	100-01-6	SW8270D	3.83-3.88	0.0652	2	330	0
7,12-Dimethylbenz (a) anthracene	57-97-6	SW8270D	3.83-3.88	0.0046	2	0.084	2
Aniline	62-53-3	SW8270D	3.83-3.88	0.0953	2	570	0
Antimony	7440-36-0	SW6010C	4.58-4.99	3.1	14	47	0
Benzene	71-43-2	SW8260B	0.247-0.25	0.0511	2	42	0
Benzidine	92-87-5	SW8270D	3.83-3.88	0.0000568	2	0.1	2
Benzo (a) anthracene	56-55-3	SW8270D	3.83-3.88	0.85	2	210	0
Benzo (a) pyrene	50-32-8	SW8270D	3.83-3.88	1.1	2	21	0
Benzyl alcohol	100-51-6	SW8270D	3.83-3.88	0.972	2	8200	0
bis (2-Chloroethoxy) methane	111-91-1	SW8270D	3.83-3.88	0.027	2	250	0
bis (2-Chloroethyl) ether	111-44-4	SW8270D	3.83-3.88	0.000741	2	10	0
Bromobenzene	108-86-1	SW8260B	0.247-0.25	0.0839	2	180	0
Bromochloromethane	74-97-5	SW8260B	0.247-0.25	0.0413	2	63	0
Bromodichloromethane	75-27-4	SW8260B	0.247-0.25	0.00705	2	13	0
Bromoform	75-25-2	SW8260B	0.247-0.25	0.175	2	860	0
Bromomethane	74-83-9	SW8260B	0.247-0.25	0.00379	2	3	0
Carbon tetrachloride	56-23-5	SW8260B	0.247-0.25	0.0386	2	29	0
Chloroform	67-66-3	SW8260B	0.247-0.25	0.0122	2	14	0
Chloromethane	74-87-3	SW8260B	0.247-0.25	0.0979	2	46	0
Dibenz (a,h) anthracene	53-70-3	SW8270D	3.83-3.88	1.1	2	21	0
Dibenzofuran	132-64-9	SW8270D	3.83-3.88	0.293	2	100	0
Dibromochloromethane	124-48-1	SW8260B	0.247-0.25	0.0464	2	390	0
Dibromomethane	74-95-3	SW8260B	0.247-0.25	0.00409	2	9.9	0
Diphenylamine	122-39-4	SW8270D	3.83-3.88	1.15	2	8200	0
Hexachlorobenzene	118-74-1	SW8270D	3.83-3.88	0.252	2	9.6	0
Hexachlorobutadiene	87-68-3	SW8260B	0.247-0.25	0.025	2	53	0
Hexachlorocyclopentadiene	77-47-4	SW8270D	3.83-3.88	0.18	2	0.75	2
Hexachloroethane	67-72-1	SW8270D	3.83-3.88	0.00753	2	46	0
Isophorone	78-59-1	SW8270D	3.83-3.88	2.51	2	16000	0

Soil Screening Level Exceedences

Parameter	CAS	Reference Method	LOQ range (ug/L)	Residential Tier II		Industrial Tier III	
				Screening Level	Instances of LOQ>SL	Screening Level	Instances of LOQ>SL
Methyl methanesulfonate	66-27-3	SW8270D	3.83-3.88	0.033	2	230	0
Naphthalene	91-20-3	SW8260B	0.247-0.25	0.0401	2	59	0
Nitrobenzene	98-95-3	SW8270D	3.83-3.88	0.017	2	130	0
n-Nitrosodimethylamine	62-75-9	SW8270D	3.83-3.88	0.0000054	2	0.34	2
n-Nitrosodi-n-butylamine	924-16-3	SW8270D	3.83-3.88	0.0011	2	4.6	0
n-Nitrosodi-n-propylamine	621-64-7	SW8270D	3.83-3.88	0.00165	2	3.3	2
n-Nitrosopiperidine	100-75-4	SW8270D	3.83-3.88	0.000877	2	2.4	2
PCB as Aroclor 1221	11104-28-2	SW8082A	0.113-0.124	0.016	2	8.3	0
PCB as Aroclor 1232	11141-16-5	SW8082A	0.113-0.124	0.016	2	7.2	0
PCB as Aroclor 1254	11097-69-1	SW8082A	0.113-0.124	0.12	1	1.5	0
p-Chloro-m-cresol	59-50-7	SW8270D	3.83-3.88	3.31	2	8200	0
Pentachlorophenol	87-86-5	SW8270D	3.83-3.88	0.0277	2	40	0
Phenacetin	62-44-2	SW8270D	3.83-3.88	1.92	2	10000	0
Pyridine	110-86-1	SW8270D	3.83-3.88	0.0137	2	120	0
Tetrachloroethylene (PCE)	127-18-4	SW8260B	0.247-0.25	0.0453	2	39	0
Thallium	7440-28-0	SW6010C	2.29-2.49	0.078	14	1.2	14
Vinyl acetate	108-05-4	SW8260B	0.247-0.25	0.175	2	380	0

Groundwater Screening Level Exceedances

Parameter	CAS	Reference Method	LOQ range (ug/L)	Residential VI Tier III		Industrial VI Tier III		Construction Worker Tier III	
				Screening Level	Instances of LOQ>SL	Screening Level	Instances of LOQ>SL	Screening Level	Instances of LOQ>SL
1,2,3-Trichloropropane	96-18-4	SW8260B	0.4	2.21	0	9.27	0	0.0888	4
1,2,4,5-Tetrachlorobenzene	95-94-3	SW8270D	2.17-4.49		n/a		n/a	0.234	3
1,2,4-Trichlorobenzene	120-82-1	SW8270D	0.3-4.49	3.62	1	15.2	0	5.84	0
3-Methylcholanthrene	56-49-5	SW8270D	1.09-2.25		n/a		n/a	0.288	3
7,12-Dimethylbenz (a) anthracene	57-97-6	SW8270D	2.17-4.49		n/a		n/a	0.0539	3
Benzidine	92-87-5	SW8270D	54.3-112		n/a		n/a	15.8	3
Dichlorodifluoromethane	75-71-8	SW8260B	1	0.713	4	3.14	0	223	0
Hexachlorobenzene	118-74-1	SW8270D	1.09-2.25	0.878	3	3.88	0	0.0257	3
Hexachlorocyclopentadiene	77-47-4	SW8270D	1.09-2.25	0.019	3	0.0797	3	36.7	0
Mercury	7439-97-6	SW7470A	0.2	0.0881	2	0.369	0	0.0897	2
Mercury	7439-97-6	EPA245.1 R3.0	0.2	0.0881	2	0.369	0	0.0897	2
n-Nitrosodimethylamine	62-75-9	SW8270D	2.17-4.49	9.68	0	118	0	0.245	3
PCB as Aroclor 1254	11097-69-1	SW8082A	0.038-0.039	4.24	0	18.2	0	0.0359	2

APPENDIX H
ANALYTICAL DATA

**Summary of Detected Soil Analytical Results
(Concentrations Reported in mg/kg)**

Analyte	CAS	VRP Tier II SL	VRP Tier III SL	Sampled Depth (ft)	Sampling Location													
					SB-28 11/30/2016	SB-29 11/30/2016	SS-1 6/2/2016	SS-2 6/2/2016	SS-3 6/2/2016	SS-4 6/2/2016	SS-5 6/2/2016	SS-6 6/2/2016	SS-7 6/2/2016	SS-8 6/2/2016	SS-9 6/2/2016	SS-10 6/2/2016	SS-11 6/2/2016	SS-12 6/2/2016
Aluminum	7429-90-5	7,700	110,000	0-2					>1500	>1500	>1500	>1500	>1500	>1500	>1500	>1500	>1500	>1500
Arsenic	7440-38-2	3.4	30	0-2	8.75	4.23	<1.99	<1.98	2.35	7.52	<1.86	<1.92	<1.87	<1.93	2.05	<1.96	<1.99	<1.83
Barium	7440-39-3	1,500	22,000	0-2					102	96.5	97.4	155	93.4	97.4	96.5	82.6	86.7	67.6
Cadmium	7440-43-9	7	98	0-2	1.82	0.816	2.45	2.56	2.51	2.68	2.21	2.74	1.99	2.11	2.39	2.21	1.85	1.55
Chromium	7440-47-3			0-2	13.3	9.2	15.6	15.2	12.7	9.91	14.1	20.1	13.5	16.6	11.4	14.7	14.2	11.7
Copper	7440-50-8	310	4,700	0-2	32.3	15.8	24.1	32.2	47.4	40.2	27	34.2	28.4	40.4	51.3	39.1	17.8	16.4
Iron	7439-89-6			0-2					13,800	15,300	13,600	14,400	11,600	12,400	13,500	13,200	10,800	10,100
Lead	7439-92-1	270	800	0-2	247	20.9	58.6	77.4	112	87.7	45.2	112	90.4	78.9	122	69.2	54.5	62.5
Manganese	7439-96-5			0-2					94.2	67.2	63.9	492	308	410	57.2	181	318	232
Mercury	7439-97-6	0.94	4	0-2	0.501	0.107	0.617	0.189	0.18	0.152	0.102	0.211	0.315	0.256	0.72	0.116	0.127	0.156
Nickel	7440-02-0	50.78	2,200	0-2	9.9	2.76	13.8	14.3	5.57	6.32	4.79	11	9.04	9.21	4.79	8.85	6.94	5.63
Vanadium	7440-62-2	39	580	0-2					23.9	23.6	29.8	40.9	24.3	28.6	22.7	26.9	25.1	21.3
Zinc	7440-66-6	745.2	35,000	0-2	105	22.2	78.9	98.6	105	28.5	36	93.3	84.9	92.6	69.8	76.7	68	52.4

NOTE: The complete laboratory report succeeds this summary table.

Summary of Detected Groundwater Analytical Results (Concentrations Reported in µg/L)

Analyte	CAS	VRP Screening Levels (ug/L)			Sampling Events			
		Residential Vapor Intrusion Tier III	Industrial Vapor Intrusion Tier III	Construction Worker Tier III	MW-28.1		MW-29	
					10/25/2016	11/13/2017	12/1/2016	11/13/2017
Acetone	67-64-1	2,240,000	9,780,000	13,900			12.1	
Aluminum	7429-90-5					16,800		82.1
Arsenic	7440-38-2			205	7.73	13	8.8	13
Barium	7440-39-3					416		128
Cadmium	7440-43-9					4.2		
Calcium	7440-70-2					58,200		63,200
Chromium	7440-47-3				4.7	20	16.7	
Cobalt	7440-48-4					21.7		2.2
Copper	7440-50-8			6,850		9.9	23.4	
Cyanide	57-12-5				10		60	
Iron	7439-89-6					38,200		14,800
Lead	7439-92-1					7.9	150	
Magnesium	7439-95-4					18,900		15,300
Manganese	7439-96-5					3520		523
Mercury	7439-97-6	0.0881	0.369	0.0897			0.7	
Napthalene	91-20-3	17.2	72.3	0.805			1.12	
Nickel	7440-02-0			5,160	6.9	11.8	7	
Potassium	7440-09-7					13,400		28,000
Pyrene	129-00-0			1,490	1.52			
Selenium	7782-49-2			3,420		3.71		
Sodium	7440-23-5					32,400		45,900
Vanadium	7440-62-2					36.2		2.2
Zinc	7440-66-6			246,000	11.1	59.5	95.5	11.6

NOTE: The complete laboratory report succeeds this summary table

Summary of Detected CSO Analytical Results (Concentrations Reported in µg/L)

Analytes	CSO-1 (Bloody Run Interceptor – downgradient of FGW))	CSO-2* (North of Williamsburg Ave – upgradient of FGW))
Benzoic Acid	BLOD (MDL = 1.1 µg/L)	27.2 µg/L
Benzyl Alcohol	4.43 µg/L	11.5 µg/L
Bis (2-Ethylhexyl) Phthalate	1.42 µg/L	5.26 µg/L
Dimethyl Phthalate	1.96 µg/L	BLOD (MDL = 4.21 µg/L)
Di-n-octyl Phthalate	1.96 µg/L	8.21 µg/L
Naphthalene	5.91 µg/L	BLOD (MDL = 4.21 µg/L)

NOTES: * CSO-2 had a dilution factor of 4
BLOD = below limit of detection

NOTE: The complete laboratory report succeeds this summary table



Air Water & Soil Laboratories, Inc.
 1941 Reymet Road
 Richmond, VA 23237
 (804)-358-8295 - Telephone
 (804)-358-8297 - Fax

Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Laboratory Sample ID: 16F0089-01

Client Sample ID: SS-1

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Cadmium	01	SW6010C	2.45		0.199	0.200	1	mg/kg
Chromium	01	SW6010C	15.6		0.498	0.500	1	mg/kg
Copper	01	SW6010C	24.1		0.498	2.50	1	mg/kg
Lead	01	SW6010C	58.6		0.498	0.500	1	mg/kg
Mercury	01RE1	SW7471B	0.617		0.075	0.075	10	mg/kg
Nickel	01	SW6010C	13.8		0.498	0.500	1	mg/kg
Zinc	01	SW6010C	78.9		0.498	0.500	1	mg/kg

Laboratory Sample ID: 16F0089-02

Client Sample ID: SS-2

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Cadmium	02	SW6010C	2.56		0.198	0.200	1	mg/kg
Chromium	02	SW6010C	15.2		0.496	0.500	1	mg/kg
Copper	02	SW6010C	32.2		0.496	2.50	1	mg/kg
Lead	02	SW6010C	77.4		0.496	0.500	1	mg/kg
Mercury	02	SW7471B	0.189		0.008	0.008	1	mg/kg
Nickel	02	SW6010C	14.3		0.496	0.500	1	mg/kg
Zinc	02	SW6010C	98.6		0.496	0.500	1	mg/kg



Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Laboratory Sample ID: 16F0089-03 Client Sample ID: SS-3

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	03	SW6010C	2.35		0.947	1.00	1	mg/kg
Cadmium	03	SW6010C	2.51		0.189	0.200	1	mg/kg
Chromium	03	SW6010C	12.7		0.473	0.500	1	mg/kg
Copper	03	SW6010C	47.4		0.473	2.50	1	mg/kg
Lead	03	SW6010C	112		0.473	0.500	1	mg/kg
Mercury	03	SW7471B	0.180		0.007	0.008	1	mg/kg
Nickel	03	SW6010C	5.57		0.473	0.500	1	mg/kg
Zinc	03	SW6010C	105		0.473	0.500	1	mg/kg

Laboratory Sample ID: 16F0089-04 Client Sample ID: SS-4

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	04	SW6010C	7.52		0.979	1.00	1	mg/kg
Cadmium	04	SW6010C	2.68		0.196	0.200	1	mg/kg
Chromium	04	SW6010C	9.91		0.490	0.500	1	mg/kg
Copper	04	SW6010C	40.2		0.490	2.50	1	mg/kg
Lead	04	SW6010C	87.7		0.490	0.500	1	mg/kg
Mercury	04	SW7471B	0.152		0.008	0.008	1	mg/kg
Nickel	04	SW6010C	6.32		0.490	0.500	1	mg/kg
Zinc	04	SW6010C	28.5		0.490	0.500	1	mg/kg

Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Laboratory Sample ID: 16F0089-05 Client Sample ID: SS-5

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Cadmium	05	SW6010C	2.21		0.186	0.200	1	mg/kg
Chromium	05	SW6010C	14.1		0.465	0.500	1	mg/kg
Copper	05	SW6010C	27.0		0.465	2.50	1	mg/kg
Lead	05	SW6010C	45.2		0.465	0.500	1	mg/kg
Mercury	05	SW7471B	0.102		0.008	0.008	1	mg/kg
Nickel	05	SW6010C	4.79		0.465	0.500	1	mg/kg
Zinc	05	SW6010C	36.0		0.465	0.500	1	mg/kg

Laboratory Sample ID: 16F0089-06 Client Sample ID: SS-6

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Cadmium	06	SW6010C	2.74		0.192	0.200	1	mg/kg
Chromium	06	SW6010C	20.1		0.481	0.500	1	mg/kg
Copper	06	SW6010C	34.2		0.481	2.50	1	mg/kg
Lead	06	SW6010C	112		0.481	0.500	1	mg/kg
Mercury	06RE1	SW7471B	0.211		0.039	0.039	5	mg/kg
Nickel	06	SW6010C	11.0		0.481	0.500	1	mg/kg
Zinc	06	SW6010C	93.3		0.481	0.500	1	mg/kg



Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Laboratory Sample ID: 16F0089-07 Client Sample ID: SS-7

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Cadmium	07	SW6010C	1.99		0.187	0.200	1	mg/kg
Chromium	07	SW6010C	13.5		0.467	0.500	1	mg/kg
Copper	07	SW6010C	28.4		0.467	2.50	1	mg/kg
Lead	07	SW6010C	90.4		0.467	0.500	1	mg/kg
Mercury	07RE1	SW7471B	0.315		0.038	0.038	5	mg/kg
Nickel	07	SW6010C	9.04		0.467	0.500	1	mg/kg
Zinc	07	SW6010C	84.9		0.467	0.500	1	mg/kg

Laboratory Sample ID: 16F0089-08 Client Sample ID: SS-8

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Cadmium	08	SW6010C	2.11		0.193	0.200	1	mg/kg
Chromium	08	SW6010C	16.6		0.484	0.500	1	mg/kg
Copper	08	SW6010C	40.4		0.484	2.50	1	mg/kg
Lead	08	SW6010C	78.9		0.484	0.500	1	mg/kg
Mercury	08RE1	SW7471B	0.256		0.035	0.035	5	mg/kg
Nickel	08	SW6010C	9.21		0.484	0.500	1	mg/kg
Zinc	08	SW6010C	92.6		0.484	0.500	1	mg/kg



Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Laboratory Sample ID: 16F0089-09 Client Sample ID: SS-9

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	09	SW6010C	2.05		0.922	1.00	1	mg/kg
Cadmium	09	SW6010C	2.39		0.184	0.200	1	mg/kg
Chromium	09	SW6010C	11.4		0.461	0.500	1	mg/kg
Copper	09	SW6010C	51.3		0.461	2.50	1	mg/kg
Lead	09	SW6010C	122		0.461	0.500	1	mg/kg
Mercury	09RE1	SW7471B	0.720		0.072	0.072	10	mg/kg
Nickel	09	SW6010C	4.79		0.461	0.500	1	mg/kg
Zinc	09	SW6010C	69.8		0.461	0.500	1	mg/kg

Laboratory Sample ID: 16F0089-10 Client Sample ID: SS-10

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Cadmium	10	SW6010C	2.21		0.196	0.200	1	mg/kg
Chromium	10	SW6010C	14.7		0.490	0.500	1	mg/kg
Copper	10	SW6010C	39.1		0.490	2.50	1	mg/kg
Lead	10	SW6010C	69.2		0.490	0.500	1	mg/kg
Mercury	10	SW7471B	0.116		0.008	0.008	1	mg/kg
Nickel	10	SW6010C	8.85		0.490	0.500	1	mg/kg
Zinc	10	SW6010C	76.7		0.490	0.500	1	mg/kg

Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Laboratory Sample ID: 16F0089-11 Client Sample ID: SS-11

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Cadmium	11	SW6010C	1.85		0.199	0.200	1	mg/kg
Chromium	11	SW6010C	14.2		0.499	0.500	1	mg/kg
Copper	11	SW6010C	17.8		0.499	2.50	1	mg/kg
Lead	11	SW6010C	54.5		0.499	0.500	1	mg/kg
Mercury	11	SW7471B	0.127		0.008	0.008	1	mg/kg
Nickel	11	SW6010C	6.94		0.499	0.500	1	mg/kg
Zinc	11	SW6010C	68.0		0.499	0.500	1	mg/kg

Laboratory Sample ID: 16F0089-12 Client Sample ID: SS-12

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Cadmium	12	SW6010C	1.55		0.183	0.200	1	mg/kg
Chromium	12	SW6010C	11.7		0.458	0.500	1	mg/kg
Copper	12	SW6010C	16.4		0.458	2.50	1	mg/kg
Lead	12	SW6010C	62.5		0.458	0.500	1	mg/kg
Mercury	12	SW7471B	0.156		0.007	0.008	1	mg/kg
Nickel	12	SW6010C	5.63		0.458	0.500	1	mg/kg
Zinc	12	SW6010C	52.4		0.458	0.500	1	mg/kg

Note that this report is not the "Certificate of Analysis". This report only lists the target analytes that displayed concentrations that exceeded the detection limit specified for that analyte. For a complete listing of all analytes requested and the results of the analysis see the "Certificate of Analysis".



1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 16F0089

Client Name: Timmons Group
1001 Boulders Parkway, Suite 300
Richmond, VA 23225

Date Received: June 3, 2016 9:22
Date Issued: November 22, 2017 11:48
Project Number: [none]
Purchase Order:

Submitted To: Chase Farnsworth

Client Site I.D.: E Main St. Parcels

Enclosed are the results of analyses for samples received by the laboratory on 06/03/2016 09:22. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars
Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Air Water & Soil Laboratories, Inc.



Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1	16F0089-01	Soil	06/02/2016 10:00	06/03/2016 09:22
SS-2	16F0089-02	Soil	06/02/2016 10:05	06/03/2016 09:22
SS-3	16F0089-03	Soil	06/02/2016 10:15	06/03/2016 09:22
SS-4	16F0089-04	Soil	06/02/2016 10:30	06/03/2016 09:22
SS-5	16F0089-05	Soil	06/02/2016 10:45	06/03/2016 09:22
SS-6	16F0089-06	Soil	06/02/2016 11:00	06/03/2016 09:22
SS-7	16F0089-07	Soil	06/02/2016 11:15	06/03/2016 09:22
SS-8	16F0089-08	Soil	06/02/2016 11:40	06/03/2016 09:22
SS-9	16F0089-09	Soil	06/02/2016 11:55	06/03/2016 09:22
SS-10	16F0089-10	Soil	06/02/2016 12:10	06/03/2016 09:22
SS-11	16F0089-11	Soil	06/02/2016 12:25	06/03/2016 09:22
SS-12	16F0089-12	Soil	06/02/2016 12:40	06/03/2016 09:22

This Certificate of Analysis is being reissued on November 22, 2017 to reflect report format changes per client request.

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Client Sample ID: SS-1

Laboratory Sample ID: 16F0089-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	01	7440-22-4	SW6010C	06/06/2016 11:10	06/06/2016 15:10	BLOD		0.498	0.500	1	mg/kg	CWO
Arsenic	01RE1	7440-38-2	SW6010C	06/06/2016 11:10	06/07/2016 12:36	BLOD		1.99	1.99	2	mg/kg	CWO
Beryllium	01	7440-41-7	SW6010C	06/06/2016 11:10	06/06/2016 15:10	BLOD		0.199	0.200	1	mg/kg	CWO
Cadmium	01	7440-43-9	SW6010C	06/06/2016 11:10	06/06/2016 15:10	2.45		0.199	0.200	1	mg/kg	CWO
Chromium	01	7440-47-3	SW6010C	06/06/2016 11:10	06/06/2016 15:10	15.6		0.498	0.500	1	mg/kg	CWO
Copper	01	7440-50-8	SW6010C	06/06/2016 11:10	06/06/2016 15:10	24.1		0.498	2.50	1	mg/kg	CWO
Mercury	01RE1	7439-97-6	SW7471B	06/07/2016 09:00	06/07/2016 12:56	0.617		0.075	0.075	10	mg/kg	MWL
Nickel	01	7440-02-0	SW6010C	06/06/2016 11:10	06/06/2016 15:10	13.8		0.498	0.500	1	mg/kg	CWO
Lead	01	7439-92-1	SW6010C	06/06/2016 11:10	06/06/2016 15:10	58.6		0.498	0.500	1	mg/kg	CWO
Antimony	01	7440-36-0	SW6010C	06/06/2016 11:10	06/06/2016 15:10	BLOD		4.98	5.00	1	mg/kg	CWO
Selenium	01	7782-49-2	SW6010C	06/06/2016 11:10	06/06/2016 15:10	BLOD		2.49	2.50	1	mg/kg	CWO
Thallium	01	7440-28-0	SW6010C	06/06/2016 11:10	06/06/2016 15:10	BLOD		2.49	2.50	1	mg/kg	CWO
Zinc	01	7440-66-6	SW6010C	06/06/2016 11:10	06/06/2016 15:10	78.9		0.498	0.500	1	mg/kg	CWO

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Client Sample ID: SS-2

Laboratory Sample ID: 16F0089-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	02	7440-22-4	SW6010C	06/06/2016 11:10	06/06/2016 15:16	BLOD		0.496	0.500	1	mg/kg	CWO
Arsenic	02RE1	7440-38-2	SW6010C	06/06/2016 11:10	06/07/2016 12:41	BLOD		1.98	1.98	2	mg/kg	CWO
Beryllium	02	7440-41-7	SW6010C	06/06/2016 11:10	06/06/2016 15:16	BLOD		0.198	0.200	1	mg/kg	CWO
Cadmium	02	7440-43-9	SW6010C	06/06/2016 11:10	06/06/2016 15:16	2.56		0.198	0.200	1	mg/kg	CWO
Chromium	02	7440-47-3	SW6010C	06/06/2016 11:10	06/06/2016 15:16	15.2		0.496	0.500	1	mg/kg	CWO
Copper	02	7440-50-8	SW6010C	06/06/2016 11:10	06/06/2016 15:16	32.2		0.496	2.50	1	mg/kg	CWO
Mercury	02	7439-97-6	SW7471B	06/07/2016 09:00	06/07/2016 12:03	0.189		0.008	0.008	1	mg/kg	MWL
Nickel	02	7440-02-0	SW6010C	06/06/2016 11:10	06/06/2016 15:16	14.3		0.496	0.500	1	mg/kg	CWO
Lead	02	7439-92-1	SW6010C	06/06/2016 11:10	06/06/2016 15:16	77.4		0.496	0.500	1	mg/kg	CWO
Antimony	02	7440-36-0	SW6010C	06/06/2016 11:10	06/06/2016 15:16	BLOD		4.96	5.00	1	mg/kg	CWO
Selenium	02	7782-49-2	SW6010C	06/06/2016 11:10	06/06/2016 15:16	BLOD		2.48	2.50	1	mg/kg	CWO
Thallium	02	7440-28-0	SW6010C	06/06/2016 11:10	06/06/2016 15:16	BLOD		2.48	2.50	1	mg/kg	CWO
Zinc	02	7440-66-6	SW6010C	06/06/2016 11:10	06/06/2016 15:16	98.6		0.496	0.500	1	mg/kg	CWO

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Client Site I.D.: E Main St. Parcels
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Date Issued: 11/22/2017 11:48:59AM

Client Sample ID: SS-3

Laboratory Sample ID: 16F0089-03

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	03	7440-22-4	SW6010C	06/06/2016 11:10	06/06/2016 15:27	BLOD		0.473	0.500	1	mg/kg	CWO
Arsenic	03	7440-38-2	SW6010C	06/06/2016 11:10	06/06/2016 15:27	2.35		0.947	1.00	1	mg/kg	CWO
Beryllium	03	7440-41-7	SW6010C	06/06/2016 11:10	06/06/2016 15:27	BLOD		0.189	0.200	1	mg/kg	CWO
Cadmium	03	7440-43-9	SW6010C	06/06/2016 11:10	06/06/2016 15:27	2.51		0.189	0.200	1	mg/kg	CWO
Chromium	03	7440-47-3	SW6010C	06/06/2016 11:10	06/06/2016 15:27	12.7		0.473	0.500	1	mg/kg	CWO
Copper	03	7440-50-8	SW6010C	06/06/2016 11:10	06/06/2016 15:27	47.4		0.473	2.50	1	mg/kg	CWO
Mercury	03	7439-97-6	SW7471B	06/07/2016 09:00	06/07/2016 12:06	0.180		0.007	0.008	1	mg/kg	MWL
Nickel	03	7440-02-0	SW6010C	06/06/2016 11:10	06/06/2016 15:27	5.57		0.473	0.500	1	mg/kg	CWO
Lead	03	7439-92-1	SW6010C	06/06/2016 11:10	06/06/2016 15:27	112		0.473	0.500	1	mg/kg	CWO
Antimony	03	7440-36-0	SW6010C	06/06/2016 11:10	06/06/2016 15:27	BLOD		4.73	5.00	1	mg/kg	CWO
Selenium	03	7782-49-2	SW6010C	06/06/2016 11:10	06/06/2016 15:27	BLOD		2.37	2.50	1	mg/kg	CWO
Thallium	03	7440-28-0	SW6010C	06/06/2016 11:10	06/06/2016 15:27	BLOD		2.37	2.50	1	mg/kg	CWO
Zinc	03	7440-66-6	SW6010C	06/06/2016 11:10	06/06/2016 15:27	105		0.473	0.500	1	mg/kg	CWO

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Date Issued: 11/22/2017 11:48:59AM

Client Sample ID: SS-4

Laboratory Sample ID: 16F0089-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	04	7440-22-4	SW6010C	06/06/2016 11:10	06/06/2016 15:42	BLOD		0.490	0.500	1	mg/kg	CWO
Arsenic	04	7440-38-2	SW6010C	06/06/2016 11:10	06/06/2016 15:42	7.52		0.979	1.00	1	mg/kg	CWO
Beryllium	04	7440-41-7	SW6010C	06/06/2016 11:10	06/06/2016 15:42	BLOD		0.196	0.200	1	mg/kg	CWO
Cadmium	04	7440-43-9	SW6010C	06/06/2016 11:10	06/06/2016 15:42	2.68		0.196	0.200	1	mg/kg	CWO
Chromium	04	7440-47-3	SW6010C	06/06/2016 11:10	06/06/2016 15:42	9.91		0.490	0.500	1	mg/kg	CWO
Copper	04	7440-50-8	SW6010C	06/06/2016 11:10	06/06/2016 15:42	40.2		0.490	2.50	1	mg/kg	CWO
Mercury	04	7439-97-6	SW7471B	06/07/2016 09:00	06/07/2016 12:08	0.152		0.008	0.008	1	mg/kg	MWL
Nickel	04	7440-02-0	SW6010C	06/06/2016 11:10	06/06/2016 15:42	6.32		0.490	0.500	1	mg/kg	CWO
Lead	04	7439-92-1	SW6010C	06/06/2016 11:10	06/06/2016 15:42	87.7		0.490	0.500	1	mg/kg	CWO
Antimony	04	7440-36-0	SW6010C	06/06/2016 11:10	06/06/2016 15:42	BLOD		4.90	5.00	1	mg/kg	CWO
Selenium	04	7782-49-2	SW6010C	06/06/2016 11:10	06/06/2016 15:42	BLOD		2.45	2.50	1	mg/kg	CWO
Thallium	04	7440-28-0	SW6010C	06/06/2016 11:10	06/06/2016 15:42	BLOD		2.45	2.50	1	mg/kg	CWO
Zinc	04	7440-66-6	SW6010C	06/06/2016 11:10	06/06/2016 15:42	28.5		0.490	0.500	1	mg/kg	CWO

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Client Sample ID: SS-5

Laboratory Sample ID: 16F0089-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	05	7440-22-4	SW6010C	06/06/2016 11:10	06/06/2016 15:48	BLOD		0.465	0.500	1	mg/kg	CWO
Arsenic	05RE1	7440-38-2	SW6010C	06/06/2016 11:10	06/07/2016 12:57	BLOD		1.86	1.86	2	mg/kg	CWO
Beryllium	05	7440-41-7	SW6010C	06/06/2016 11:10	06/06/2016 15:47	BLOD		0.186	0.200	1	mg/kg	CWO
Cadmium	05	7440-43-9	SW6010C	06/06/2016 11:10	06/06/2016 15:48	2.21		0.186	0.200	1	mg/kg	CWO
Chromium	05	7440-47-3	SW6010C	06/06/2016 11:10	06/06/2016 15:48	14.1		0.465	0.500	1	mg/kg	CWO
Copper	05	7440-50-8	SW6010C	06/06/2016 11:10	06/06/2016 15:48	27.0		0.465	2.50	1	mg/kg	CWO
Mercury	05	7439-97-6	SW7471B	06/07/2016 09:00	06/07/2016 12:11	0.102		0.008	0.008	1	mg/kg	MWL
Nickel	05	7440-02-0	SW6010C	06/06/2016 11:10	06/06/2016 15:48	4.79		0.465	0.500	1	mg/kg	CWO
Lead	05	7439-92-1	SW6010C	06/06/2016 11:10	06/06/2016 15:48	45.2		0.465	0.500	1	mg/kg	CWO
Antimony	05	7440-36-0	SW6010C	06/06/2016 11:10	06/06/2016 15:48	BLOD		4.65	5.00	1	mg/kg	CWO
Selenium	05	7782-49-2	SW6010C	06/06/2016 11:10	06/06/2016 15:48	BLOD		2.33	2.50	1	mg/kg	CWO
Thallium	05	7440-28-0	SW6010C	06/06/2016 11:10	06/06/2016 15:48	BLOD		2.33	2.50	1	mg/kg	CWO
Zinc	05	7440-66-6	SW6010C	06/06/2016 11:10	06/06/2016 15:48	36.0		0.465	0.500	1	mg/kg	CWO

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Client Sample ID: SS-6

Laboratory Sample ID: 16F0089-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	06	7440-22-4	SW6010C	06/06/2016 11:10	06/06/2016 15:53	BLOD		0.481	0.500	1	mg/kg	CWO
Arsenic	06RE1	7440-38-2	SW6010C	06/06/2016 11:10	06/07/2016 13:02	BLOD		1.92	1.92	2	mg/kg	CWO
Beryllium	06	7440-41-7	SW6010C	06/06/2016 11:10	06/06/2016 15:53	BLOD		0.192	0.200	1	mg/kg	CWO
Cadmium	06	7440-43-9	SW6010C	06/06/2016 11:10	06/06/2016 15:53	2.74		0.192	0.200	1	mg/kg	CWO
Chromium	06	7440-47-3	SW6010C	06/06/2016 11:10	06/06/2016 15:53	20.1		0.481	0.500	1	mg/kg	CWO
Copper	06	7440-50-8	SW6010C	06/06/2016 11:10	06/06/2016 15:53	34.2		0.481	2.50	1	mg/kg	CWO
Mercury	06RE1	7439-97-6	SW7471B	06/07/2016 09:00	06/07/2016 14:24	0.211		0.039	0.039	5	mg/kg	MWL
Nickel	06	7440-02-0	SW6010C	06/06/2016 11:10	06/06/2016 15:53	11.0		0.481	0.500	1	mg/kg	CWO
Lead	06	7439-92-1	SW6010C	06/06/2016 11:10	06/06/2016 15:53	112		0.481	0.500	1	mg/kg	CWO
Antimony	06	7440-36-0	SW6010C	06/06/2016 11:10	06/06/2016 15:53	BLOD		4.81	5.00	1	mg/kg	CWO
Selenium	06	7782-49-2	SW6010C	06/06/2016 11:10	06/06/2016 15:53	BLOD		2.40	2.50	1	mg/kg	CWO
Thallium	06	7440-28-0	SW6010C	06/06/2016 11:10	06/06/2016 15:53	BLOD		2.40	2.50	1	mg/kg	CWO
Zinc	06	7440-66-6	SW6010C	06/06/2016 11:10	06/06/2016 15:53	93.3		0.481	0.500	1	mg/kg	CWO

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Date Issued: 11/22/2017 11:48:59AM

Client Sample ID: SS-7

Laboratory Sample ID: 16F0089-07

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	07	7440-22-4	SW6010C	06/06/2016 11:10	06/06/2016 15:59	BLOD		0.467	0.500	1	mg/kg	CWO
Arsenic	07RE1	7440-38-2	SW6010C	06/06/2016 11:10	06/07/2016 13:08	BLOD		1.87	1.87	2	mg/kg	CWO
Beryllium	07	7440-41-7	SW6010C	06/06/2016 11:10	06/06/2016 15:59	BLOD		0.187	0.200	1	mg/kg	CWO
Cadmium	07	7440-43-9	SW6010C	06/06/2016 11:10	06/06/2016 15:59	1.99		0.187	0.200	1	mg/kg	CWO
Chromium	07	7440-47-3	SW6010C	06/06/2016 11:10	06/06/2016 15:59	13.5		0.467	0.500	1	mg/kg	CWO
Copper	07	7440-50-8	SW6010C	06/06/2016 11:10	06/06/2016 15:59	28.4		0.467	2.50	1	mg/kg	CWO
Mercury	07RE1	7439-97-6	SW7471B	06/07/2016 09:00	06/07/2016 13:57	0.315		0.038	0.038	5	mg/kg	MWL
Nickel	07	7440-02-0	SW6010C	06/06/2016 11:10	06/06/2016 15:59	9.04		0.467	0.500	1	mg/kg	CWO
Lead	07	7439-92-1	SW6010C	06/06/2016 11:10	06/06/2016 15:59	90.4		0.467	0.500	1	mg/kg	CWO
Antimony	07	7440-36-0	SW6010C	06/06/2016 11:10	06/06/2016 15:59	BLOD		4.67	5.00	1	mg/kg	CWO
Selenium	07	7782-49-2	SW6010C	06/06/2016 11:10	06/06/2016 15:59	BLOD		2.33	2.50	1	mg/kg	CWO
Thallium	07	7440-28-0	SW6010C	06/06/2016 11:10	06/06/2016 15:59	BLOD		2.33	2.50	1	mg/kg	CWO
Zinc	07	7440-66-6	SW6010C	06/06/2016 11:10	06/06/2016 15:59	84.9		0.467	0.500	1	mg/kg	CWO

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Date Issued: 11/22/2017 11:48:59AM

Client Sample ID: SS-8

Laboratory Sample ID: 16F0089-08

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	08	7440-22-4	SW6010C	06/06/2016 11:10	06/06/2016 16:05	BLOD		0.484	0.500	1	mg/kg	CWO
Arsenic	08RE1	7440-38-2	SW6010C	06/06/2016 11:10	06/07/2016 13:13	BLOD		1.93	1.93	2	mg/kg	CWO
Beryllium	08	7440-41-7	SW6010C	06/06/2016 11:10	06/06/2016 16:04	BLOD		0.193	0.200	1	mg/kg	CWO
Cadmium	08	7440-43-9	SW6010C	06/06/2016 11:10	06/06/2016 16:05	2.11		0.193	0.200	1	mg/kg	CWO
Chromium	08	7440-47-3	SW6010C	06/06/2016 11:10	06/06/2016 16:05	16.6		0.484	0.500	1	mg/kg	CWO
Copper	08	7440-50-8	SW6010C	06/06/2016 11:10	06/06/2016 16:05	40.4		0.484	2.50	1	mg/kg	CWO
Mercury	08RE1	7439-97-6	SW7471B	06/07/2016 09:00	06/07/2016 13:59	0.256		0.035	0.035	5	mg/kg	MWL
Nickel	08	7440-02-0	SW6010C	06/06/2016 11:10	06/06/2016 16:05	9.21		0.484	0.500	1	mg/kg	CWO
Lead	08	7439-92-1	SW6010C	06/06/2016 11:10	06/06/2016 16:05	78.9		0.484	0.500	1	mg/kg	CWO
Antimony	08	7440-36-0	SW6010C	06/06/2016 11:10	06/06/2016 16:05	BLOD		4.84	5.00	1	mg/kg	CWO
Selenium	08	7782-49-2	SW6010C	06/06/2016 11:10	06/06/2016 16:05	BLOD		2.42	2.50	1	mg/kg	CWO
Thallium	08	7440-28-0	SW6010C	06/06/2016 11:10	06/06/2016 16:05	BLOD		2.42	2.50	1	mg/kg	CWO
Zinc	08	7440-66-6	SW6010C	06/06/2016 11:10	06/06/2016 16:05	92.6		0.484	0.500	1	mg/kg	CWO

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Date Issued: 11/22/2017 11:48:59AM

Client Sample ID: SS-9

Laboratory Sample ID: 16F0089-09

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	09	7440-22-4	SW6010C	06/06/2016 11:10	06/06/2016 16:10	BLOD		0.461	0.500	1	mg/kg	CWO
Arsenic	09	7440-38-2	SW6010C	06/06/2016 11:10	06/06/2016 16:11	2.05		0.922	1.00	1	mg/kg	CWO
Beryllium	09	7440-41-7	SW6010C	06/06/2016 11:10	06/06/2016 16:10	BLOD		0.184	0.200	1	mg/kg	CWO
Cadmium	09	7440-43-9	SW6010C	06/06/2016 11:10	06/06/2016 16:11	2.39		0.184	0.200	1	mg/kg	CWO
Chromium	09	7440-47-3	SW6010C	06/06/2016 11:10	06/06/2016 16:11	11.4		0.461	0.500	1	mg/kg	CWO
Copper	09	7440-50-8	SW6010C	06/06/2016 11:10	06/06/2016 16:10	51.3		0.461	2.50	1	mg/kg	CWO
Mercury	09RE1	7439-97-6	SW7471B	06/07/2016 09:00	06/07/2016 14:01	0.720		0.072	0.072	10	mg/kg	MWL
Nickel	09	7440-02-0	SW6010C	06/06/2016 11:10	06/06/2016 16:11	4.79		0.461	0.500	1	mg/kg	CWO
Lead	09	7439-92-1	SW6010C	06/06/2016 11:10	06/06/2016 16:11	122		0.461	0.500	1	mg/kg	CWO
Antimony	09	7440-36-0	SW6010C	06/06/2016 11:10	06/06/2016 16:11	BLOD		4.61	5.00	1	mg/kg	CWO
Selenium	09	7782-49-2	SW6010C	06/06/2016 11:10	06/06/2016 16:11	BLOD		2.30	2.50	1	mg/kg	CWO
Thallium	09	7440-28-0	SW6010C	06/06/2016 11:10	06/06/2016 16:11	BLOD		2.30	2.50	1	mg/kg	CWO
Zinc	09	7440-66-6	SW6010C	06/06/2016 11:10	06/06/2016 16:10	69.8		0.461	0.500	1	mg/kg	CWO

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Client Sample ID: SS-10

Laboratory Sample ID: 16F0089-10

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	10	7440-22-4	SW6010C	06/06/2016 11:10	06/06/2016 16:16	BLOD		0.490	0.500	1	mg/kg	CWO
Arsenic	10RE1	7440-38-2	SW6010C	06/06/2016 11:10	06/07/2016 13:26	BLOD		1.96	1.96	2	mg/kg	CWO
Beryllium	10	7440-41-7	SW6010C	06/06/2016 11:10	06/06/2016 16:16	BLOD		0.196	0.200	1	mg/kg	CWO
Cadmium	10	7440-43-9	SW6010C	06/06/2016 11:10	06/06/2016 16:16	2.21		0.196	0.200	1	mg/kg	CWO
Chromium	10	7440-47-3	SW6010C	06/06/2016 11:10	06/06/2016 16:16	14.7		0.490	0.500	1	mg/kg	CWO
Copper	10	7440-50-8	SW6010C	06/06/2016 11:10	06/06/2016 16:16	39.1		0.490	2.50	1	mg/kg	CWO
Mercury	10	7439-97-6	SW7471B	06/07/2016 09:00	06/07/2016 12:30	0.116		0.008	0.008	1	mg/kg	MWL
Nickel	10	7440-02-0	SW6010C	06/06/2016 11:10	06/06/2016 16:16	8.85		0.490	0.500	1	mg/kg	CWO
Lead	10	7439-92-1	SW6010C	06/06/2016 11:10	06/06/2016 16:16	69.2		0.490	0.500	1	mg/kg	CWO
Antimony	10	7440-36-0	SW6010C	06/06/2016 11:10	06/06/2016 16:16	BLOD		4.90	5.00	1	mg/kg	CWO
Selenium	10	7782-49-2	SW6010C	06/06/2016 11:10	06/06/2016 16:16	BLOD		2.45	2.50	1	mg/kg	CWO
Thallium	10	7440-28-0	SW6010C	06/06/2016 11:10	06/06/2016 16:16	BLOD		2.45	2.50	1	mg/kg	CWO
Zinc	10	7440-66-6	SW6010C	06/06/2016 11:10	06/06/2016 16:16	76.7		0.490	0.500	1	mg/kg	CWO

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Client Sample ID: SS-11

Laboratory Sample ID: 16F0089-11

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	11	7440-22-4	SW6010C	06/06/2016 11:10	06/06/2016 16:33	BLOD		0.499	0.500	1	mg/kg	CWO
Arsenic	11RE1	7440-38-2	SW6010C	06/06/2016 11:10	06/07/2016 13:41	BLOD		1.99	1.99	2	mg/kg	CWO
Beryllium	11	7440-41-7	SW6010C	06/06/2016 11:10	06/06/2016 16:33	BLOD		0.199	0.200	1	mg/kg	CWO
Cadmium	11	7440-43-9	SW6010C	06/06/2016 11:10	06/06/2016 16:34	1.85		0.199	0.200	1	mg/kg	CWO
Chromium	11	7440-47-3	SW6010C	06/06/2016 11:10	06/06/2016 16:34	14.2		0.499	0.500	1	mg/kg	CWO
Copper	11	7440-50-8	SW6010C	06/06/2016 11:10	06/06/2016 16:33	17.8		0.499	2.50	1	mg/kg	CWO
Mercury	11	7439-97-6	SW7471B	06/07/2016 09:00	06/07/2016 12:32	0.127		0.008	0.008	1	mg/kg	MWL
Nickel	11	7440-02-0	SW6010C	06/06/2016 11:10	06/06/2016 16:34	6.94		0.499	0.500	1	mg/kg	CWO
Lead	11	7439-92-1	SW6010C	06/06/2016 11:10	06/06/2016 16:34	54.5		0.499	0.500	1	mg/kg	CWO
Antimony	11	7440-36-0	SW6010C	06/06/2016 11:10	06/06/2016 16:34	BLOD		4.99	5.00	1	mg/kg	CWO
Selenium	11	7782-49-2	SW6010C	06/06/2016 11:10	06/06/2016 16:34	BLOD		2.49	2.50	1	mg/kg	CWO
Thallium	11	7440-28-0	SW6010C	06/06/2016 11:10	06/06/2016 16:34	BLOD		2.49	2.50	1	mg/kg	CWO
Zinc	11	7440-66-6	SW6010C	06/06/2016 11:10	06/06/2016 16:33	68.0		0.499	0.500	1	mg/kg	CWO

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Client Sample ID: SS-12

Laboratory Sample ID: 16F0089-12

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	12	7440-22-4	SW6010C	06/06/2016 11:10	06/06/2016 16:48	BLOD		0.458	0.500	1	mg/kg	CWO
Arsenic	12RE1	7440-38-2	SW6010C	06/06/2016 11:10	06/07/2016 13:46	BLOD		1.83	1.83	2	mg/kg	CWO
Beryllium	12	7440-41-7	SW6010C	06/06/2016 11:10	06/06/2016 16:48	BLOD		0.183	0.200	1	mg/kg	CWO
Cadmium	12	7440-43-9	SW6010C	06/06/2016 11:10	06/06/2016 16:49	1.55		0.183	0.200	1	mg/kg	CWO
Chromium	12	7440-47-3	SW6010C	06/06/2016 11:10	06/06/2016 16:49	11.7		0.458	0.500	1	mg/kg	CWO
Copper	12	7440-50-8	SW6010C	06/06/2016 11:10	06/06/2016 16:48	16.4		0.458	2.50	1	mg/kg	CWO
Mercury	12	7439-97-6	SW7471B	06/07/2016 09:00	06/07/2016 12:35	0.156		0.007	0.008	1	mg/kg	MWL
Nickel	12	7440-02-0	SW6010C	06/06/2016 11:10	06/06/2016 16:49	5.63		0.458	0.500	1	mg/kg	CWO
Lead	12	7439-92-1	SW6010C	06/06/2016 11:10	06/06/2016 16:49	62.5		0.458	0.500	1	mg/kg	CWO
Antimony	12	7440-36-0	SW6010C	06/06/2016 11:10	06/06/2016 16:49	BLOD		4.58	5.00	1	mg/kg	CWO
Selenium	12	7782-49-2	SW6010C	06/06/2016 11:10	06/06/2016 16:49	BLOD		2.29	2.50	1	mg/kg	CWO
Thallium	12	7440-28-0	SW6010C	06/06/2016 11:10	06/06/2016 16:49	BLOD		2.29	2.50	1	mg/kg	CWO
Zinc	12	7440-66-6	SW6010C	06/06/2016 11:10	06/06/2016 16:48	52.4		0.458	0.500	1	mg/kg	CWO

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZF0109 - SW3050B

Blank (BZF0109-BLK1)

Prepared & Analyzed: 06/06/2016

Zinc	BLOD	0.500	mg/kg							
Arsenic	BLOD	1.00	mg/kg							
Nickel	BLOD	0.500	mg/kg							
Chromium	BLOD	0.500	mg/kg							
Antimony	BLOD	5.00	mg/kg							
Thallium	BLOD	2.50	mg/kg							
Beryllium	BLOD	0.200	mg/kg							
Lead	BLOD	0.500	mg/kg							
Selenium	BLOD	2.50	mg/kg							
Silver	BLOD	0.500	mg/kg							
Cadmium	BLOD	0.200	mg/kg							
Copper	BLOD	2.50	mg/kg							

LCS (BZF0109-BS1)

Prepared & Analyzed: 06/06/2016

Arsenic	90.0	1.00	mg/kg	95.0		94.8	80-120
Chromium	93.9	0.500	mg/kg	95.0		98.9	80-120
Antimony	80.1	5.00	mg/kg	95.0		84.4	80-120
Thallium	88.2	2.50	mg/kg	95.0		92.9	80-120
Selenium	82.8	2.50	mg/kg	95.0		87.2	80-120
Beryllium	87.4	0.200	mg/kg	95.0		92.1	80-120
Copper	95.0	2.50	mg/kg	95.0		100	80-120
Silver	4.06	0.500	mg/kg	4.75		85.5	80-120
Cadmium	89.8	0.200	mg/kg	95.0		94.6	80-120
Lead	91.2	0.500	mg/kg	95.0		96.1	80-120
Zinc	89.0	0.500	mg/kg	95.0		93.8	80-120

Certificate of Analysis

Client Name: Timmons Group
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Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZF0109 - SW3050B										
LCS (BZF0109-BS1)				Prepared & Analyzed: 06/06/2016						
Nickel	92.9	0.500	mg/kg	95.0		97.9	80-120			
LCS Dup (BZF0109-BSD1)				Prepared & Analyzed: 06/06/2016						
Chromium	98.7	0.500	mg/kg	98.9		99.8	80-120	4.94	20	
Beryllium	92.1	0.200	mg/kg	98.9		93.1	80-120	5.14	20	
Copper	99.9	2.50	mg/kg	98.9		101	80-120	4.99	20	
Cadmium	94.5	0.200	mg/kg	98.9		95.5	80-120	5.04	20	
Arsenic	94.9	1.00	mg/kg	98.9		95.9	80-120	5.24	20	
Selenium	87.3	2.50	mg/kg	98.9		88.2	80-120	5.20	20	
Silver	4.29	0.500	mg/kg	4.95		86.7	80-120	5.42	20	
Thallium	91.7	2.50	mg/kg	98.9		92.7	80-120	3.89	20	
Lead	95.9	0.500	mg/kg	98.9		96.9	80-120	4.97	20	
Zinc	93.7	0.500	mg/kg	98.9		94.7	80-120	5.07	20	
Nickel	97.6	0.500	mg/kg	98.9		98.7	80-120	4.90	20	
Antimony	83.8	5.00	mg/kg	98.9		84.7	80-120	4.45	20	
Matrix Spike (BZF0109-MS1)		Source: 16F0089-02		Prepared & Analyzed: 06/06/2016						
Thallium	71.0	2.50	mg/kg	95.7	BLOD	74.2	75-125			M
Silver	2.97	0.500	mg/kg	4.78	BLOD	62.1	75-125			M
Beryllium	70.5	0.200	mg/kg	95.7	BLOD	73.7	75-125			M
Zinc	182	0.500	mg/kg	95.7	98.6	87.4	75-125			
Selenium	65.6	2.50	mg/kg	95.7	BLOD	68.5	75-125			M
Cadmium	79.7	0.200	mg/kg	95.7	2.56	80.6	75-125			
Antimony	24.9	5.00	mg/kg	95.7	BLOD	26.0	75-125			M
Nickel	94.4	0.500	mg/kg	95.7	14.3	83.7	75-125			
Copper	122	2.50	mg/kg	95.7	32.2	94.1	75-125			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZF0109 - SW3050B

Matrix Spike Dup (BZF0109-MSD1)		Source: 16F0089-02			Prepared & Analyzed: 06/06/2016					
Chromium	85.8	0.500	mg/kg	91.2	15.2	77.4	75-125	11.9	20	
Silver	2.49	0.500	mg/kg	4.56	BLOD	54.6	75-125	17.6	20	M
Beryllium	60.2	0.200	mg/kg	91.2	BLOD	66.0	75-125	15.8	20	M
Zinc	166	0.500	mg/kg	91.2	98.6	73.4	75-125	9.61	20	M
Nickel	83.7	0.500	mg/kg	91.2	14.3	76.1	75-125	12.0	20	
Antimony	21.9	5.00	mg/kg	91.2	BLOD	23.9	75-125	12.9	20	M
Thallium	64.1	2.50	mg/kg	91.2	BLOD	70.3	75-125	10.2	20	M
Matrix Spike Dup (BZF0109-MSD2)		Source: 16F0089-10			Prepared & Analyzed: 06/06/2016					
Zinc	123	0.500	mg/kg	96.5	76.7	48.3	75-125	18.9	20	M
Cadmium	69.1	0.200	mg/kg	96.5	2.21	69.3	75-125	11.3	20	M
Antimony	21.2	5.00	mg/kg	96.5	BLOD	22.0	75-125	15.2	20	M
Beryllium	62.2	0.200	mg/kg	96.5	BLOD	64.4	75-125	11.5	20	M
Chromium	83.9	0.500	mg/kg	96.5	14.7	71.6	75-125	11.6	20	M
Selenium	58.0	2.50	mg/kg	96.5	BLOD	60.1	75-125	11.8	20	M
Silver	2.79	0.500	mg/kg	4.83	BLOD	57.8	75-125	11.3	20	M
Lead	124	0.500	mg/kg	96.5	69.2	57.2	75-125	7.79	20	M
Copper	128	2.50	mg/kg	96.5	39.1	92.0	75-125	3.45	20	
Thallium	62.9	2.50	mg/kg	96.5	BLOD	65.2	75-125	14.4	20	M
Nickel	75.3	0.500	mg/kg	96.5	8.85	68.8	75-125	12.1	20	M
Matrix Spike Dup (BZF0109-MSD3)		Source: 16F0089-02RE1			Prepared: 06/06/2016 Analyzed: 06/07/2016					
Arsenic	80.3	1.82	mg/kg	91.2	BLOD	88.0	75-125	1.63	20	
Matrix Spike Dup (BZF0109-MSD4)		Source: 16F0089-10RE1			Prepared: 06/06/2016 Analyzed: 06/07/2016					
Arsenic	93.0	1.93	mg/kg	96.5	BLOD	96.4	75-125	11.6	20	

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZF0130 - SW7471B										
Blank (BZF0130-BLK1)				Prepared & Analyzed: 06/07/2016						
Mercury	BLOD	0.008	mg/kg							
LCS (BZF0130-BS1)				Prepared & Analyzed: 06/07/2016						
Mercury	0.094	0.008	mg/kg	0.0951		98.7	80-120			
LCS Dup (BZF0130-BSD1)				Prepared & Analyzed: 06/07/2016						
Mercury	0.094	0.008	mg/kg	0.0947		99.0	80-120	0.104	20	
Matrix Spike (BZF0130-MS1)				Source: 16F0089-12 Prepared & Analyzed: 06/07/2016						
Mercury	0.242	0.008	mg/kg	0.0992	0.156	87.4	80-120			
Matrix Spike Dup (BZF0130-MSD1)				Source: 16F0089-12 Prepared & Analyzed: 06/07/2016						
Mercury	0.237	0.008	mg/kg	0.0954	0.156	84.9	80-120	2.34	20	

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			Preparation Method:	SW3050B	
16F0089-01	1.00 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-01RE1	1.00 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-02	1.01 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-02RE1	1.01 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-03	1.06 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-04	1.02 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-05	1.08 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-05RE1	1.08 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-06	1.04 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-06RE1	1.04 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-07	1.07 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-07RE1	1.07 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-08	1.03 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-08RE1	1.03 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-09	1.08 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-10	1.02 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-10RE1	1.02 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-11	1.00 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-11RE1	1.00 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-12	1.09 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-12RE1	1.09 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			Preparation Method:	SW7471B	
16F0089-01	0.534 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-01RE1	0.534 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			Preparation Method:	SW7471B	
16F0089-02	0.514 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-03	0.542 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-04	0.523 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-05	0.531 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-06	0.510 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-06RE1	0.510 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-07	0.533 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-07RE1	0.533 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-08	0.565 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-08RE1	0.565 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-09	0.554 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-09RE1	0.554 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-10	0.516 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-11	0.519 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-12	0.553 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Certified Analyses included in this Report

Analyte	Certifications
SW6010C in Solids	
Antimony	VELAP
Arsenic	VELAP
Beryllium	VELAP
Cadmium	VELAP,WVDEP
Chromium	VELAP
Copper	VELAP
Lead	VELAP,WVDEP
Nickel	VELAP
Selenium	VELAP,WVDEP
Silver	VELAP,WVDEP
Thallium	VELAP
Zinc	VELAP
SW7471B in Solids	
Mercury	VELAP,WVDEP

Code	Description	Cert Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2017
NC	North Carolina DENR	495	12/31/2017
PADEP	NELAC-Pennsylvania	001	10/31/2017
VELAP Certificate #4337	NELAC-Virginia Certificate #9475	460021	06/14/2018
WVDEP	West Virginia DEP	350	11/30/2017

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Qualifiers and Definitions

M Matrix spike recovery is outside established acceptance limits

P Duplicate analysis does not meet the acceptance criteria for precision

RPD Relative Percent Difference

Qual Qualifiers

-RE Denotes sample was re-analyzed

LOD Limit of Detection

BLOD Below Limit of Detection

LOQ Limit of Quantitation

DF Dilution Factor

TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

PCBs, Total Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

CHAIN OF CUSTODY

PAGE 1 OF 2

COMPANY NAME: <u>Timmons Group</u>	INVOICE TO: <u>[Signature]</u>	PROJECT NAME/Quote #: <u>E Main St Parcels</u>
CONTACT: <u>Chase Farnsworth</u>	INVOICE CONTACT:	SITE NAME:
ADDRESS: <u>1001 Boulders Pkwy, Suite 300</u>	INVOICE ADDRESS:	PROJECT NUMBER:
PHONE #: <u>804.200.6450</u>	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL: <u>chase.farnsworth@timmons.com</u>	Pretreatment Program:
Is sample for compliance reporting? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Is sample from a chlorinated supply? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PWS I.D. #:
SAMPLER NAME (PRINT): <u>Chase Farnsworth</u> SAMPLER SIGNATURE: <u>[Signature]</u>		Turn Around Time: <u>5</u> Day(s)

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE)								COMMENTS
1) <u>55-1</u>		X		<u>6/2/16</u>	<u>10:00</u>				<u>S</u>	<u>1</u>	<u>X</u>								
2) <u>55-2</u>		X			<u>10:05</u>				<u>S</u>	<u>1</u>	<u>X</u>								
3) <u>55-3</u>		X			<u>10:15</u>				<u>S</u>	<u>1</u>	<u>X</u>								
4) <u>55-4</u>		X			<u>10:30</u>				<u>S</u>	<u>1</u>	<u>X</u>								
5) <u>55-5</u>		X			<u>10:45</u>				<u>S</u>	<u>1</u>	<u>X</u>								
6) <u>55-6</u>		X			<u>11:00</u>				<u>S</u>	<u>1</u>	<u>X</u>								
7) <u>55-7</u>		X			<u>11:15</u>				<u>S</u>	<u>1</u>	<u>X</u>								
8) <u>55-8</u>		X			<u>11:40</u>				<u>S</u>	<u>1</u>	<u>X</u>								
9) <u>55-9</u>		X			<u>11:55</u>				<u>S</u>	<u>1</u>	<u>X</u>								
10) <u>55-10</u>		X			<u>12:10</u>				<u>S</u>	<u>1</u>	<u>X</u>								

Preservative Codes: N=Nitric Acid
 C=Hydrochloric Acid S=Sulfuric Acid
 H=Sodium Hydroxide A=Ascorbic Acid
 Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol

PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)

Page 30 of 33	UNQUISHED: <u>[Signature]</u> DATE / TIME: <u>6/3/16</u>	RECEIVED: <u>[Signature]</u> DATE / TIME: <u>6/3/16 922</u>	QC Data Package	LAB USE ONLY	COOLER TEMP <u>1.4</u> °C
	UNQUISHED:	RECEIVED:	Level I <input type="checkbox"/>	TG E Main St. Parcels Recd: 06/03/2016 Due: 06/10/2016 16F0089	
	UNQUISHED:	RECEIVED:	Level II <input type="checkbox"/>		
	UNQUISHED:	RECEIVED:	Level III <input type="checkbox"/>		
UNQUISHED:	RECEIVED:	Level IV <input type="checkbox"/>			

CHAIN OF CUSTODY

COMPANY NAME: <u>Timmons Group</u>	INVOICE TO: <u>[Signature]</u>	PROJECT NAME/Quote #: <u>E Main St Parcels</u>
CONTACT: <u>Chase Farnsworth</u>	INVOICE CONTACT:	SITE NAME:
ADDRESS:	INVOICE ADDRESS:	PROJECT NUMBER:
PHONE #:	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL:	Pretreatment Program:
Is sample for compliance reporting? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Is sample from a chlorinated supply? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PWS I.D. #:
SAMPLER NAME (PRINT): <u>Chase Farnsworth</u>	SAMPLER SIGNATURE: <u>[Signature]</u>	Turn Around Time: <u>5</u> Day(s)

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other _____											COMMENTS						
CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE)						Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)
1) <u>55-11</u>		X		<u>6/2/16</u>	<u>12:25</u>				<u>S</u>	<u>1</u>	<u>X</u>						
2) <u>55-12</u>		X		<u>6/2/16</u>	<u>12:40</u>				<u>S</u>	<u>1</u>	<u>X</u>						
3)																	
4)																	
5)																	
6)																	
7)																	
8)																	
9)																	
10)																	

LINQUISHED: <u>[Signature]</u> DATE / TIME <u>6/3/16</u> RECEIVED: <u>[Signature]</u> DATE / TIME <u>6/3/16 9:22</u>	QC Data Package Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>	LAB USE ONLY COOLER TEMP <u>1.4</u> °C TG E Main St. Parcels Recd: 06/03/2016 Due: 06/10/2016
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Page 31 of 33



1941 Reymet Road • Richmond, Virginia 23237 • Tel : (804) 358-8295 Fax: (804) 358-8297

Sample Conditions Checklist

Opened by: (Initials) BTC Lab ID No.: 16F0089
 Date Cooler Opened: 06/03/16

		YES	NO	N/A
1.	How were samples received? Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Courier <input type="checkbox"/> Walk In <input checked="" type="checkbox"/>			
2.	Were custody seals used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.	If yes, are custody seals unbroken and intact at the date and time of arrival?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	Are the custody papers filled out completely and correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Do all bottle labels agree with custody papers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	If NO, are the samples just taken and received on ice?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9.	Are all samples within holding time for requested laboratory tests?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Is a sufficient amount of sample provided to perform the tests indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Are all samples in proper containers for the analyses requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Are all samples appropriately preserved for the analyses requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Are all volatile organic containers free of headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14.	Are all TOX containers free of headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15.	Is Trip blank provided with each VOC sample set? Circle applicable method: (Document if trip blank is not received with the sample set)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

EPA 8011 EPA 504 EPA 8260 EPA 624
 RSK-175 EPA 8015 (GRO) EPA 8021
 EPA 524 *GRO Wisconsin DNR (water and/or methanol trip blank must be provided)

* See preservation log for Wisconsin soil DRO.

COMMENTS

FOR LAB USE ONLY:

CrVI preserved date/time: _____
 Buffer Sol'n ID: _____ Analyst initials: _____
 1N NaOH ID: _____ or 5N NaOH ID: _____

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED
 F1302 Sample Condition 6_0.xls

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:48:59AM

Sample Conditions Checklist

Samples Received at:	1.40°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	No



Air Water & Soil Laboratories, Inc.
 1941 Reymet Road
 Richmond, VA 23237
 (804)-358-8295 - Telephone
 (804)-358-8297 - Fax

Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Laboratory Sample ID: 17J0921-01 Client Sample ID: SS-10

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Barium	01	SW6010C	82.6		0.490	0.500	1	mg/kg
Iron	01	SW6010C	13200	E	0.490	2.50	1	mg/kg
Manganese	01	SW6010C	181		0.490	0.500	1	mg/kg
Vanadium	01	SW6010C	26.9		0.490	0.500	1	mg/kg

Laboratory Sample ID: 17J0921-02 Client Sample ID: SS-3

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Barium	02	SW6010C	102		0.473	0.500	1	mg/kg
Iron	02	SW6010C	13800	E	0.473	2.50	1	mg/kg
Manganese	02	SW6010C	94.2		0.473	0.500	1	mg/kg
Vanadium	02	SW6010C	23.9		0.473	0.500	1	mg/kg

Laboratory Sample ID: 17J0921-03 Client Sample ID: SS-4

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Barium	03	SW6010C	96.5		0.490	0.500	1	mg/kg
Iron	03	SW6010C	15300	E	0.490	2.50	1	mg/kg
Manganese	03	SW6010C	67.2		0.490	0.500	1	mg/kg
Vanadium	03	SW6010C	23.6		0.490	0.500	1	mg/kg



Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Laboratory Sample ID: 17J0921-04 Client Sample ID: SS-5

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Barium	04	SW6010C	97.4		0.465	0.500	1	mg/kg
Iron	04	SW6010C	13600	E	0.465	2.50	1	mg/kg
Manganese	04	SW6010C	63.9		0.465	0.500	1	mg/kg
Vanadium	04	SW6010C	29.8		0.465	0.500	1	mg/kg

Laboratory Sample ID: 17J0921-05 Client Sample ID: SS-6

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Barium	05	SW6010C	155		0.481	0.500	1	mg/kg
Iron	05	SW6010C	14400	E	0.481	2.50	1	mg/kg
Manganese	05	SW6010C	492		0.481	0.500	1	mg/kg
Vanadium	05	SW6010C	40.9		0.481	0.500	1	mg/kg

Laboratory Sample ID: 17J0921-06 Client Sample ID: SS-7

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Barium	06	SW6010C	93.4		0.467	0.500	1	mg/kg
Iron	06	SW6010C	11600	E	0.467	2.50	1	mg/kg
Manganese	06	SW6010C	308		0.467	0.500	1	mg/kg
Vanadium	06	SW6010C	24.3		0.467	0.500	1	mg/kg



Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Laboratory Sample ID: 17J0921-07 Client Sample ID: SS-8

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Barium	07	SW6010C	97.4		0.484	0.500	1	mg/kg
Iron	07	SW6010C	12400	E	0.484	2.50	1	mg/kg
Manganese	07	SW6010C	410		0.484	0.500	1	mg/kg
Vanadium	07	SW6010C	28.6		0.484	0.500	1	mg/kg

Laboratory Sample ID: 17J0921-08 Client Sample ID: SS-9

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Barium	08	SW6010C	96.5		0.461	0.500	1	mg/kg
Iron	08	SW6010C	13500	E	0.461	2.50	1	mg/kg
Manganese	08	SW6010C	57.2		0.461	0.500	1	mg/kg
Vanadium	08	SW6010C	22.7		0.461	0.500	1	mg/kg

Laboratory Sample ID: 17J0921-09 Client Sample ID: SS-11

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Barium	09	SW6010C	86.7		0.499	0.500	1	mg/kg
Iron	09	SW6010C	10800	E	0.499	2.50	1	mg/kg
Manganese	09	SW6010C	318		0.499	0.500	1	mg/kg
Vanadium	09	SW6010C	25.1		0.499	0.500	1	mg/kg

Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Laboratory Sample ID: 17J0921-10 Client Sample ID: SS-12

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Barium	10	SW6010C	67.6		0.458	0.500	1	mg/kg
Iron	10	SW6010C	10100	E	0.458	2.50	1	mg/kg
Manganese	10	SW6010C	232		0.458	0.500	1	mg/kg
Vanadium	10	SW6010C	21.3		0.458	0.500	1	mg/kg

Note that this report is not the "Certificate of Analysis". This report only lists the target analytes that displayed concentrations that exceeded the detection limit specified for that analyte. For a complete listing of all analytes requested and the results of the analysis see the "Certificate of Analysis".



1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 17J0921

Client Name: Timmons Group
1001 Boulders Parkway, Suite 300
Richmond, VA 23225

Date Received: October 30, 2017 16:27
Date Issued: November 22, 2017 11:46
Project Number: [none]
Purchase Order:

Submitted To: Chase Farnsworth

Client Site I.D.: E Main St. Parcels

Enclosed are the results of analyses for samples received by the laboratory on 10/30/2017 16:27. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Emile Shaw
Director of Operations

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Air Water & Soil Laboratories, Inc.



Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-10	17J0921-01	Soil	06/02/2016 12:10	10/30/2017 16:27
SS-3	17J0921-02	Soil	06/02/2016 10:15	10/30/2017 16:27
SS-4	17J0921-03	Soil	06/02/2016 10:30	10/30/2017 16:27
SS-5	17J0921-04	Soil	06/02/2016 10:45	10/30/2017 16:27
SS-6	17J0921-05	Soil	06/02/2016 11:00	10/30/2017 16:27
SS-7	17J0921-06	Soil	06/02/2016 11:15	10/30/2017 16:27
SS-8	17J0921-07	Soil	06/02/2016 11:40	10/30/2017 16:27
SS-9	17J0921-08	Soil	06/02/2016 11:55	10/30/2017 16:27
SS-11	17J0921-09	Soil	06/02/2016 12:25	10/30/2017 16:27
SS-12	17J0921-10	Soil	06/02/2016 12:40	10/30/2017 16:27

On October 30, 2017 John Russell requested that data captured and not previously reported from AWS Work Order 16F0089-10 be reported. Of interest were five metals: aluminum, iron, manganese, barium, and vanadium. The data are presented in the this report (AWS Work Order 17J0921). The data have been qualified. No matrix spike data are reported for aluminum or iron as the concentration in the sample was over the calibration range and no dilution was performed at the time. Bracketing Continuing Calibration Verification (CCV) and Continuing Calibration Blank (CCB) checks were within acceptable limits for the five metals. Aluminum results are represented as a greater than concentration because the analyte saturated the detector but no dilution was performed at the time. Iron results are qualified with an "E" because the concentrations are above the daily linear dynamic range verification check but no dilution was performed at the time.

On November 03, 2017 the certificate of analysis was reissued to include additional metals data for samples 16F0089-03 through 16F0089-12.

This Certificate of Analysis is being reissued on November 22, 2017 to reflect report format changes per client request.

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Client Sample ID: SS-10

Laboratory Sample ID: 17J0921-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Aluminum	01	7429-90-5	SW6010C	06/06/2016 11:10	06/06/2016 16:16	BLOD		2.45	2.50	1	mg/kg	BG
Barium	01	7440-39-3	SW6010C	06/06/2016 11:10	06/06/2016 16:16	82.6		0.490	0.500	1	mg/kg	BG
Iron	01	7439-89-6	SW6010C	06/06/2016 11:10	06/06/2016 16:16	13200	E	0.490	2.50	1	mg/kg	BG
Manganese	01	7439-96-5	SW6010C	06/06/2016 11:10	06/06/2016 16:16	181		0.490	0.500	1	mg/kg	BG
Vanadium	01	7440-62-2	SW6010C	06/06/2016 11:10	06/06/2016 16:16	26.9		0.490	0.500	1	mg/kg	BG

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Client Sample ID: SS-3

Laboratory Sample ID: 17J0921-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Aluminum	02	7429-90-5	SW6010C	06/06/2016 11:10	06/06/2016 15:27	BLOD		2.37	2.50	1	mg/kg	BG
Barium	02	7440-39-3	SW6010C	06/06/2016 11:10	06/06/2016 15:27	102		0.473	0.500	1	mg/kg	BG
Iron	02	7439-89-6	SW6010C	06/06/2016 11:10	06/06/2016 15:27	13800	E	0.473	2.50	1	mg/kg	BG
Manganese	02	7439-96-5	SW6010C	06/06/2016 11:10	06/06/2016 15:27	94.2		0.473	0.500	1	mg/kg	BG
Vanadium	02	7440-62-2	SW6010C	06/06/2016 11:10	06/06/2016 15:27	23.9		0.473	0.500	1	mg/kg	BG

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Client Sample ID: SS-4

Laboratory Sample ID: 17J0921-03

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Aluminum	03	7429-90-5	SW6010C	06/06/2016 11:10	06/06/2016 15:42	BLOD		2.45	2.50	1	mg/kg	CWO
Barium	03	7440-39-3	SW6010C	06/06/2016 11:10	06/06/2016 15:42	96.5		0.490	0.500	1	mg/kg	CWO
Iron	03	7439-89-6	SW6010C	06/06/2016 11:10	06/06/2016 15:42	15300	E	0.490	2.50	1	mg/kg	CWO
Manganese	03	7439-96-5	SW6010C	06/06/2016 11:10	06/06/2016 15:42	67.2		0.490	0.500	1	mg/kg	CWO
Vanadium	03	7440-62-2	SW6010C	06/06/2016 11:10	06/06/2016 15:42	23.6		0.490	0.500	1	mg/kg	CWO

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Client Sample ID: SS-5

Laboratory Sample ID: 17J0921-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Aluminum	04	7429-90-5	SW6010C	06/06/2016 11:10	06/06/2016 15:47	BLOD		2.33	2.50	1	mg/kg	CWO
Barium	04	7440-39-3	SW6010C	06/06/2016 11:10	06/06/2016 15:48	97.4		0.465	0.500	1	mg/kg	CWO
Iron	04	7439-89-6	SW6010C	06/06/2016 11:10	06/06/2016 15:47	13600	E	0.465	2.50	1	mg/kg	CWO
Manganese	04	7439-96-5	SW6010C	06/06/2016 11:10	06/06/2016 15:48	63.9		0.465	0.500	1	mg/kg	CWO
Vanadium	04	7440-62-2	SW6010C	06/06/2016 11:10	06/06/2016 15:48	29.8		0.465	0.500	1	mg/kg	CWO

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Client Sample ID: SS-6

Laboratory Sample ID: 17J0921-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Aluminum	05	7429-90-5	SW6010C	06/06/2016 11:10	06/06/2016 15:53	BLOD		2.40	2.50	1	mg/kg	CWO
Barium	05	7440-39-3	SW6010C	06/06/2016 11:10	06/06/2016 15:53	155		0.481	0.500	1	mg/kg	CWO
Iron	05	7439-89-6	SW6010C	06/06/2016 11:10	06/06/2016 15:53	14400	E	0.481	2.50	1	mg/kg	CWO
Manganese	05	7439-96-5	SW6010C	06/06/2016 11:10	06/06/2016 15:53	492		0.481	0.500	1	mg/kg	CWO
Vanadium	05	7440-62-2	SW6010C	06/06/2016 11:10	06/06/2016 15:53	40.9		0.481	0.500	1	mg/kg	CWO

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Client Sample ID: SS-7

Laboratory Sample ID: 17J0921-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Aluminum	06	7429-90-5	SW6010C	06/06/2016 11:10	06/06/2016 15:58	BLOD		2.33	2.50	1	mg/kg	CWO
Barium	06	7440-39-3	SW6010C	06/06/2016 11:10	06/06/2016 15:59	93.4		0.467	0.500	1	mg/kg	CWO
Iron	06	7439-89-6	SW6010C	06/06/2016 11:10	06/06/2016 15:58	11600	E	0.467	2.50	1	mg/kg	CWO
Manganese	06	7439-96-5	SW6010C	06/06/2016 11:10	06/06/2016 15:59	308		0.467	0.500	1	mg/kg	CWO
Vanadium	06	7440-62-2	SW6010C	06/06/2016 11:10	06/06/2016 15:59	24.3		0.467	0.500	1	mg/kg	CWO

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Client Sample ID: SS-8

Laboratory Sample ID: 17J0921-07

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Aluminum	07	7429-90-5	SW6010C	06/06/2016 11:10	06/06/2016 16:04	BLOD		2.42	2.50	1	mg/kg	CWO
Barium	07	7440-39-3	SW6010C	06/06/2016 11:10	06/06/2016 16:05	97.4		0.484	0.500	1	mg/kg	CWO
Iron	07	7439-89-6	SW6010C	06/06/2016 11:10	06/06/2016 16:04	12400	E	0.484	2.50	1	mg/kg	CWO
Manganese	07	7439-96-5	SW6010C	06/06/2016 11:10	06/06/2016 16:04	410		0.484	0.500	1	mg/kg	CWO
Vanadium	07	7440-62-2	SW6010C	06/06/2016 11:10	06/06/2016 16:05	28.6		0.484	0.500	1	mg/kg	CWO

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Client Sample ID: SS-9

Laboratory Sample ID: 17J0921-08

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Aluminum	08	7429-90-5	SW6010C	06/06/2016 11:10	06/06/2016 16:10	BLOD		2.30	2.50	1	mg/kg	CWO
Barium	08	7440-39-3	SW6010C	06/06/2016 11:10	06/06/2016 16:10	96.5		0.461	0.500	1	mg/kg	CWO
Iron	08	7439-89-6	SW6010C	06/06/2016 11:10	06/06/2016 16:10	13500	E	0.461	2.50	1	mg/kg	CWO
Manganese	08	7439-96-5	SW6010C	06/06/2016 11:10	06/06/2016 16:10	57.2		0.461	0.500	1	mg/kg	CWO
Vanadium	08	7440-62-2	SW6010C	06/06/2016 11:10	06/06/2016 16:10	22.7		0.461	0.500	1	mg/kg	CWO

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Client Sample ID: SS-11

Laboratory Sample ID: 17J0921-09

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Aluminum	09	7429-90-5	SW6010C	06/06/2016 11:10	06/06/2016 16:33	BLOD		2.49	2.50	1	mg/kg	CWO
Barium	09	7440-39-3	SW6010C	06/06/2016 11:10	06/06/2016 16:33	86.7		0.499	0.500	1	mg/kg	CWO
Iron	09	7439-89-6	SW6010C	06/06/2016 11:10	06/06/2016 16:33	10800	E	0.499	2.50	1	mg/kg	CWO
Manganese	09	7439-96-5	SW6010C	06/06/2016 11:10	06/06/2016 16:33	318		0.499	0.500	1	mg/kg	CWO
Vanadium	09	7440-62-2	SW6010C	06/06/2016 11:10	06/06/2016 16:33	25.1		0.499	0.500	1	mg/kg	CWO

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Client Sample ID: SS-12

Laboratory Sample ID: 17J0921-10

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Aluminum	10	7429-90-5	SW6010C	06/06/2016 11:10	06/06/2016 16:48	BLOD		2.29	2.50	1	mg/kg	CWO
Barium	10	7440-39-3	SW6010C	06/06/2016 11:10	06/06/2016 16:48	67.6		0.458	0.500	1	mg/kg	CWO
Iron	10	7439-89-6	SW6010C	06/06/2016 11:10	06/06/2016 16:48	10100	E	0.458	2.50	1	mg/kg	CWO
Manganese	10	7439-96-5	SW6010C	06/06/2016 11:10	06/06/2016 16:48	232		0.458	0.500	1	mg/kg	CWO
Vanadium	10	7440-62-2	SW6010C	06/06/2016 11:10	06/06/2016 16:48	21.3		0.458	0.500	1	mg/kg	CWO

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZF0109 - SW3050B										
Blank (BZF0109-BLK1)				Prepared & Analyzed: 06/06/2016						
Manganese	BLOD	0.500	mg/kg							
Barium	BLOD	0.500	mg/kg							
Iron	0.866	2.50	mg/kg							
Vanadium	BLOD	0.500	mg/kg							
Aluminum	BLOD	2.50	mg/kg							
LCS (BZF0109-BS1)				Prepared & Analyzed: 06/06/2016						
Aluminum	90.0	2.50	mg/kg	95.0		94.8	80-120			
Barium	92.9	0.500	mg/kg	95.0		97.9	80-120			
Manganese	95.5	0.500	mg/kg	95.0		101	80-120			
Iron	95.1	2.50	mg/kg	95.0		100	80-120			
Vanadium	93.8	0.500	mg/kg	95.0		98.8	80-120			
LCS Dup (BZF0109-BSD1)				Prepared & Analyzed: 06/06/2016						
Aluminum	95.3	2.50	mg/kg	98.9		96.3	80-120	5.66	20	
Barium	98.1	0.500	mg/kg	98.9		99.2	80-120	5.41	20	
Iron	101	2.50	mg/kg	98.9		102	80-120	5.65	20	
Vanadium	98.5	0.500	mg/kg	98.9		99.6	80-120	4.89	20	
Manganese	100	0.500	mg/kg	98.9		101	80-120	4.81	20	
Matrix Spike (BZF0109-MS1)				Source: 16F0089-02 Prepared & Analyzed: 06/06/2016						
Barium	242	0.500	mg/kg	95.7	146	101	75-125			
Vanadium	115	0.500	mg/kg	95.7	34.2	84.6	75-125			
Manganese	526	0.500	mg/kg	95.7	513	13.1	75-125			M
Matrix Spike (BZF0109-MS2)				Source: 16F0089-10 Prepared & Analyzed: 06/06/2016						
Manganese	261	0.500	mg/kg	97.6	185	78.1	75-125			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZF0109 - SW3050B										
Matrix Spike (BZF0109-MS2)		Source: 16F0089-10			Prepared & Analyzed: 06/06/2016					
Barium	162	0.500	mg/kg	97.6	82.6	81.1	75-125			
Vanadium	106	0.500	mg/kg	97.6	26.9	81.3	75-125			
Matrix Spike Dup (BZF0109-MSD1)		Source: 16F0089-02			Prepared & Analyzed: 06/06/2016					
Vanadium	104	0.500	mg/kg	91.2	34.2	76.4	75-125	10.2	20	
Barium	238	0.500	mg/kg	91.2	146	101	75-125	1.88	20	
Manganese	527	0.500	mg/kg	91.2	513	15.2	75-125	0.251	20	M
Matrix Spike Dup (BZF0109-MSD2)		Source: 16F0089-10			Prepared & Analyzed: 06/06/2016					
Manganese	207	0.500	mg/kg	96.5	185	22.7	75-125	23.2	20	M, P
Barium	155	0.500	mg/kg	96.5	82.6	74.6	75-125	4.54	20	M
Vanadium	95.2	0.500	mg/kg	96.5	26.9	70.7	75-125	11.0	20	M

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			Preparation Method: SW3050B		
17J0921-01	1.02 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
17J0921-02	1.06 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
17J0921-03	1.02 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
17J0921-04	1.08 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
17J0921-05	1.04 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
17J0921-06	1.07 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
17J0921-07	1.03 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
17J0921-08	1.08 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
17J0921-09	1.00 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
17J0921-10	1.09 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Certified Analyses included in this Report

Analyte	Certifications
SW6010C in Solids	
Aluminum	VELAP
Barium	VELAP,WVDEP
Iron	VELAP
Manganese	VELAP
Vanadium	VELAP

Code	Description	Cert Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2017
NC	North Carolina DENR	495	12/31/2017
PADEP	NELAC-Pennsylvania	001	10/31/2017
VELAP Certificate #4337	NELAC-Virginia Certificate #9475	460021	06/14/2018
WVDEP	West Virginia DEP	350	11/30/2017

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E Main St. Parcels
Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Qualifiers and Definitions

E	Estimated concentration, outside calibration range
J	The reported result is an estimated value.
M	Matrix spike recovery is outside established acceptance limits
P	Duplicate analysis does not meet the acceptance criteria for precision
RPD	Relative Percent Difference
Qual	Qualifiers
-RE	Denotes sample was re-analyzed
LOD	Limit of Detection
BLOD	Below Limit of Detection
LOQ	Limit of Quantitation
DF	Dilution Factor
TIC	Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.
PCBs, Total	Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

CHAIN OF CUSTODY

COMPANY NAME: <u>Timmons Group</u>	INVOICE TO: <u>→</u>	PROJECT NAME/Quote #: <u>E Main St Parcels</u>
CONTACT: <u>Chase Farnsworth</u>	INVOICE CONTACT:	SITE NAME:
ADDRESS: <u>1001 Boulders Pkwy, Suite 300</u>	INVOICE ADDRESS:	PROJECT NUMBER:
PHONE #: <u>804.200.6450</u>	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL: <u>chase.farnsworth@timmons.com</u>	Pretreatment Program:
Is sample for compliance reporting? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Is sample from a chlorinated supply? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PWS I.D. #:
SAMPLER NAME (PRINT): <u>Chase Farnsworth</u> SAMPLER SIGNATURE: <u>[Signature]</u>		Turn Around Time: <u>5</u> Day(s)

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other _____

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE)								COMMENTS
1) <u>55-1</u>		X		<u>6/2/16</u>	<u>10:00</u>				<u>S</u>	<u>1</u>	<u>X</u>								Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)
2) <u>55-2</u>		X			<u>10:05</u>				<u>S</u>	<u>1</u>	<u>X</u>								
3) <u>55-3</u>		X			<u>10:15</u>				<u>S</u>	<u>1</u>	<u>X</u>								
4) <u>55-4</u>		X			<u>10:30</u>				<u>S</u>	<u>1</u>	<u>X</u>								
5) <u>55-5</u>		X			<u>10:45</u>				<u>S</u>	<u>1</u>	<u>X</u>								
6) <u>55-6</u>		X			<u>11:00</u>				<u>S</u>	<u>1</u>	<u>X</u>								
7) <u>55-7</u>		X			<u>11:15</u>				<u>S</u>	<u>1</u>	<u>X</u>								
8) <u>55-8</u>		X			<u>11:40</u>				<u>S</u>	<u>1</u>	<u>X</u>								
9) <u>55-9</u>		X			<u>11:55</u>				<u>S</u>	<u>1</u>	<u>X</u>								
10) <u>55-10</u>		X			<u>12:10</u>				<u>S</u>	<u>1</u>	<u>X</u>								

Page 22 of 25	INQUIRED: <u>[Signature]</u> DATE / TIME <u>6/3/16</u>	RECEIVED: <u>[Signature]</u> DATE / TIME <u>6/3/16 922</u>	QC Data Package	LAB USE ONLY	COOLER TEMP <u>1.4</u> °C
	INQUIRED: DATE / TIME	RECEIVED: DATE / TIME	Level I <input type="checkbox"/>	TG E Main St. Parcels Recd: 06/03/2016 Due: 06/10/2016 v130325002	16F0089
	INQUIRED: DATE / TIME	RECEIVED: DATE / TIME	Level II <input type="checkbox"/>		
	INQUIRED: DATE / TIME	RECEIVED: DATE / TIME	Level III <input type="checkbox"/>		
INQUIRED: DATE / TIME	RECEIVED: DATE / TIME	Level IV <input type="checkbox"/>			

CHAIN OF CUSTODY

COMPANY NAME: <u>Timmons Group</u>	INVOICE TO: <u>[Signature]</u>	PROJECT NAME/Quote #: <u>E Main St Parcels</u>
CONTACT: <u>Chase Farnsworth</u>	INVOICE CONTACT:	SITE NAME:
ADDRESS:	INVOICE ADDRESS:	PROJECT NUMBER:
PHONE #:	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL:	Pretreatment Program:
Is sample for compliance reporting? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Is sample from a chlorinated supply? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PWS I.D. #:
SAMPLER NAME (PRINT): <u>Chase Farnsworth</u>	SAMPLER SIGNATURE: <u>[Signature]</u>	Turn Around Time: <u>5</u> Day(s)

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other											COMMENTS							
CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE)						Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)	
1) <u>55-11</u>		X		<u>6/2/16</u>	<u>12:25</u>				<u>S</u>	<u>1</u>	<u>X</u>							
2) <u>55-12</u>		X		<u>6/2/16</u>	<u>12:40</u>				<u>S</u>	<u>1</u>	<u>X</u>							
3)																		
4)																		
5)																		
6)																		
7)																		
8)																		
9)																		
10)																		

Page 23 of 25	RELINQUISHED: <u>[Signature]</u> DATE / TIME <u>6/3/16</u>	RECEIVED: <u>[Signature]</u> DATE / TIME <u>6/3/16 922</u>	QC Data Package	LAB USE ONLY	COOLER TEMP <u>1.4</u> °C
	RELINQUISHED: DATE / TIME	RECEIVED: DATE / TIME	Level I <input type="checkbox"/>	TG E Main St. Parcels Recd: 06/03/2016 Due: 06/10/2016	16F0089
	RELINQUISHED: DATE / TIME	RECEIVED: DATE / TIME	Level II <input type="checkbox"/>		
	RELINQUISHED: DATE / TIME	RECEIVED: DATE / TIME	Level III <input type="checkbox"/>		
RELINQUISHED: DATE / TIME	RECEIVED: DATE / TIME	Level IV <input type="checkbox"/>			



1941 Reymet Road • Richmond, Virginia 23237 • Tel : (804) 358-8295 Fax: (804) 358-8297

Sample Conditions Checklist

Opened by: (Initials) BTC Lab ID No.: 16F0089
 Date Cooler Opened: 06/03/16

		YES	NO	N/A
1.	How were samples received? Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Courier <input type="checkbox"/> Walk In <input checked="" type="checkbox"/>			
2.	Were custody seals used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.	If yes, are custody seals unbroken and intact at the date and time of arrival?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	Are the custody papers filled out completely and correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Do all bottle labels agree with custody papers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	If NO, are the samples just taken and received on ice?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9.	Are all samples within holding time for requested laboratory tests?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Is a sufficient amount of sample provided to perform the tests indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Are all samples in proper containers for the analyses requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Are all samples appropriately preserved for the analyses requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Are all volatile organic containers free of headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14.	Are all TOX containers free of headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15.	Is Trip blank provided with each VOC sample set? Circle applicable method: (Document if trip blank is not received with the sample set)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

EPA 8011 EPA 504 EPA 8260 EPA 624
 RSK-175 EPA 8015 (GRO) EPA 8021
 EPA 524 *GRO Wisconsin DNR (water and/or methanol trip blank must be provided)

* See preservation log for Wisconsin soil DRO.

COMMENTS

FOR LAB USE ONLY:

CrVI preserved date/time: _____
 Buffer Sol'n ID: _____ Analyst initials: _____
 1N NaOH ID: _____ or 5N NaOH ID: _____

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED
 F1302 Sample Condition 6_0.xls

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: E Main St. Parcels
 Submitted To: Chase Farnsworth

Date Issued: 11/22/2017 11:46:35AM

Sample Conditions Checklist

Samples Received at:	1.40°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	No

Work Order Comments



Air Water & Soil Laboratories, Inc.
 1941 Reymet Road
 Richmond, VA 23237
 (804)-358-8295 - Telephone
 (804)-358-8297 - Fax

Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Laboratory Sample ID: 16L0048-01

Client Sample ID: MW 22

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Naphthalene	01	SW8270D	16.6		2.44	12.2	2	ug/L

Laboratory Sample ID: 16L0048-02

Client Sample ID: MW 22

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Cadmium	02	EPA200.7 Rev 4.4	0.0180		0.0020	0.0040	1	mg/L
Chromium	02	EPA200.7 Rev 4.4	0.123		0.0040	0.0100	1	mg/L
Lead	02	EPA200.7 Rev 4.4	0.0859		0.0060	0.0100	1	mg/L
Nickel	02	EPA200.7 Rev 4.4	0.0981		0.0020	0.0100	1	mg/L
Zinc	02	EPA200.7 Rev 4.4	0.352		0.0100	0.0100	1	mg/L
Arsenic	02	SW7010	0.0222		0.0030	0.0050	1	mg/L

Laboratory Sample ID: 16L0048-03

Client Sample ID: MW 22

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Cyanide	03	SW9012B	0.94	CI	0.05	0.05	5	mg/L



Air Water & Soil Laboratories, Inc.
 1941 Reymet Road
 Richmond, VA 23237
 (804)-358-8295 - Telephone
 (804)-358-8297 - Fax

Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Laboratory Sample ID: 16L0048-04 Client Sample ID: MW 22

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
1,2,4-Trimethylbenzene	04	SW8260B	0.65	J	0.20	1.00	1	ug/L
Acetone	04	SW8260B	10.3		7.00	10.0	1	ug/L
Benzene	04	SW8260B	11.7		0.30	1.00	1	ug/L
Ethylbenzene	04	SW8260B	3.40		0.20	1.00	1	ug/L
Isopropylbenzene	04	SW8260B	0.25	J	0.20	1.00	1	ug/L
Naphthalene	04	SW8260B	81.2		0.50	1.00	1	ug/L
n-Propylbenzene	04	SW8260B	0.21	J	0.10	1.00	1	ug/L
o-Xylene	04	SW8260B	1.60		0.50	1.00	1	ug/L
Styrene	04	SW8260B	0.28	J	0.20	1.00	1	ug/L
Toluene	04	SW8260B	0.84	J	0.40	1.00	1	ug/L
Xylenes, Total	04	SW8260B	1.99	J	1.00	3.00	1	ug/L

Analysis Detects Report

Client Name: Timmons Group
Client Site ID: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Laboratory Sample ID: 16L0048-05

Client Sample ID: MW-23

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Cadmium	05	EPA200.7 Rev 4.4	0.0285		0.0020	0.0040	1	mg/L
Chromium	05	EPA200.7 Rev 4.4	0.147		0.0040	0.0100	1	mg/L
Copper	05	EPA200.7 Rev 4.4	0.0103		0.0030	0.0100	1	mg/L
Lead	05	EPA200.7 Rev 4.4	0.186		0.0060	0.0100	1	mg/L
Mercury	05	EPA245.1 R3.0	0.0003		0.0002	0.0002	1	mg/L
Nickel	05	EPA200.7 Rev 4.4	0.0593		0.0020	0.0100	1	mg/L
Zinc	05	EPA200.7 Rev 4.4	0.759		0.0100	0.0100	1	mg/L
Arsenic	05	SW7010	0.0240		0.0030	0.0050	1	mg/L
Bromomethane	05	SW8260B	2.06	J	1.50	5.00	5	ug/L
Naphthalene	05RE1	SW8260B	4.25	J	2.50	5.00	5	ug/L
n-Butylbenzene	05	SW8260B	0.65	J	0.50	5.00	5	ug/L
Acenaphthene	05	SW8270D	26.1		2.47	24.7	2	ug/L
Acenaphthylene	05	SW8270D	4.40	J	2.47	24.7	2	ug/L
Fluorene	05	SW8270D	11.1	J	2.47	24.7	2	ug/L
Naphthalene	05	SW8270D	19.7		2.47	12.3	2	ug/L
Phenanthrene	05	SW8270D	3.85	J	2.47	24.7	2	ug/L
Pyrene	05	SW8270D	3.57	J	2.47	24.7	2	ug/L
Cyanide	05	SW9012B	0.48	CI	0.05	0.05	5	mg/L

Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Laboratory Sample ID: 16L0048-06 Client Sample ID: MW-24

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Cadmium	06	EPA200.7 Rev 4.4	0.0075		0.0020	0.0040	1	mg/L
Chromium	06	EPA200.7 Rev 4.4	0.120		0.0040	0.0100	1	mg/L
Copper	06	EPA200.7 Rev 4.4	0.0622		0.0030	0.0100	1	mg/L
Lead	06	EPA200.7 Rev 4.4	0.0618		0.0060	0.0100	1	mg/L
Nickel	06	EPA200.7 Rev 4.4	0.0588		0.0020	0.0100	1	mg/L
Zinc	06	EPA200.7 Rev 4.4	0.209		0.0100	0.0100	1	mg/L
Arsenic	06	SW7010	0.0284		0.0030	0.0050	1	mg/L
Selenium	06	SW7010	0.0032		0.0020	0.0030	1	mg/L
Acetone	06	SW8260B	7.38	J	7.00	10.0	1	ug/L
Methyl-t-butyl ether (MTBE)	06	SW8260B	1.36		0.40	1.00	1	ug/L
Cyanide	06	SW9012B	0.03	CI	0.01	0.01	1	mg/L

Laboratory Sample ID: 16L0048-07 Client Sample ID: MW-26

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
TPH-Semi-Volatiles (DRO)	07	SW8015C	15.3		1.25	1.25	4	mg/L
Petroleum Identification	07	ASTM	ith any petroleum pattern ii		0.0	0.0	1	-



Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Laboratory Sample ID: 16L0048-08 Client Sample ID: MW-29

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Chromium	08	EPA200.7 Rev 4.4	0.0167		0.0040	0.0100	1	mg/L
Copper	08	EPA200.7 Rev 4.4	0.0234		0.0030	0.0100	1	mg/L
Lead	08	EPA200.7 Rev 4.4	0.150		0.0060	0.0100	1	mg/L
Mercury	08	EPA245.1 R3.0	0.0007		0.0002	0.0002	1	mg/L
Nickel	08	EPA200.7 Rev 4.4	0.0070	J	0.0020	0.0100	1	mg/L
Zinc	08	EPA200.7 Rev 4.4	0.0955		0.0100	0.0100	1	mg/L
Arsenic	08	SW7010	0.0088		0.0030	0.0050	1	mg/L
Acetone	08	SW8260B	12.1		7.00	10.0	1	ug/L
Naphthalene	08	SW8260B	1.12		0.50	1.00	1	ug/L
Cyanide	08	SW9012B	0.06	CI	0.01	0.01	1	mg/L

Laboratory Sample ID: 16L0048-09 Client Sample ID: MW-30

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Cadmium	09	EPA200.7 Rev 4.4	0.0228		0.0020	0.0040	1	mg/L
Chromium	09	EPA200.7 Rev 4.4	0.0265		0.0040	0.0100	1	mg/L
Lead	09	EPA200.7 Rev 4.4	0.0256		0.0060	0.0100	1	mg/L
Nickel	09	EPA200.7 Rev 4.4	0.0065	J	0.0020	0.0100	1	mg/L
Zinc	09	EPA200.7 Rev 4.4	0.102		0.0100	0.0100	1	mg/L
Bromomethane	09	SW8260B	2.28	J	1.50	5.00	5	ug/L
Naphthalene	09	SW8260B	4.77	J	2.50	5.00	5	ug/L
n-Butylbenzene	09	SW8260B	0.72	J	0.50	5.00	5	ug/L
Acenaphthene	09	SW8270D	23.9	J	4.21	42.1	4	ug/L
Fluorene	09	SW8270D	12.3	J	4.21	42.1	4	ug/L
Pyrene	09	SW8270D	4.31	J	4.21	42.1	4	ug/L
Cyanide	09	SW9012B	0.48		0.05	0.05	5	mg/L



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Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Laboratory Sample ID: 16L0048-11 **Client Sample ID: SB-22**

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	11	SW6010C	5.29		0.979	1.00	1	mg/kg
Cadmium	11	SW6010C	3.97		0.196	0.200	1	mg/kg
Chromium	11	SW6010C	7.79		0.490	0.500	1	mg/kg
Copper	11	SW6010C	5.00		0.490	2.50	1	mg/kg
Lead	11	SW6010C	9.49		0.490	0.500	1	mg/kg
Mercury	11	SW7471B	0.013		0.008	0.008	1	mg/kg
Nickel	11	SW6010C	5.86		0.490	0.500	1	mg/kg
Zinc	11	SW6010C	18.0		0.490	0.500	1	mg/kg



Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Laboratory Sample ID: 16L0048-12 Client Sample ID: SB-23

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	12	SW6010C	8.93		0.953	1.00	1	mg/kg
Cadmium	12	SW6010C	1.76		0.191	0.200	1	mg/kg
Chromium	12	SW6010C	16.5		0.477	0.500	1	mg/kg
Copper	12	SW6010C	36.8		0.477	2.50	1	mg/kg
Lead	12	SW6010C	126		0.477	0.500	1	mg/kg
Mercury	12	SW7471B	0.175		0.008	0.008	1	mg/kg
Nickel	12	SW6010C	10.1		0.477	0.500	1	mg/kg
Zinc	12	SW6010C	70.8		0.477	0.500	1	mg/kg
Naphthalene	12	SW8260B	2510		250	250	50	ug/kg
Benzo (a) anthracene	12	SW8270D	12200		3720	3720	25	ug/kg
Benzo (a) pyrene	12	SW8270D	9230		3720	3720	25	ug/kg
Benzo (b) fluoranthene	12	SW8270D	19100		3720	3720	25	ug/kg
Benzo (g,h,i) perylene	12	SW8270D	3770		3720	3720	25	ug/kg
Chrysene	12	SW8270D	12100		3720	3720	25	ug/kg
Fluoranthene	12	SW8270D	15800		3720	3720	25	ug/kg
Indeno (1,2,3-cd) pyrene	12	SW8270D	3810		3720	3720	25	ug/kg
Naphthalene	12	SW8270D	3950		3720	3720	25	ug/kg
Phenanthrene	12	SW8270D	18600		3720	3720	25	ug/kg
Pyrene	12	SW8270D	30800		3720	3720	25	ug/kg
Cyanide	12	SW9012B	15.8		0.99	0.99	1	mg/kg
pH	12	SW9045D	7.25		0.00	0.00	1	SU

Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Laboratory Sample ID: 16L0048-13 Client Sample ID: SB-24

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	13	SW6010C	3.16		0.926	1.00	1	mg/kg
Cadmium	13	SW6010C	1.03		0.185	0.200	1	mg/kg
Chromium	13	SW6010C	12.6		0.463	0.500	1	mg/kg
Copper	13	SW6010C	9.72		0.463	2.50	1	mg/kg
Lead	13	SW6010C	22.6		0.463	0.500	1	mg/kg
Mercury	13RE1	SW7471B	0.214		0.077	0.077	10	mg/kg
Nickel	13	SW6010C	8.49		0.463	0.500	1	mg/kg
Zinc	13	SW6010C	44.1		0.463	0.500	1	mg/kg
pH	13	SW9045D	7.41		0.00	0.00	1	SU

Laboratory Sample ID: 16L0048-14 Client Sample ID: SB-25

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	14	SW6010C	6.46		0.978	1.00	1	mg/kg
Cadmium	14	SW6010C	1.46		0.196	0.200	1	mg/kg
Chromium	14	SW6010C	15.1		0.489	0.500	1	mg/kg
Copper	14	SW6010C	23.5		0.489	2.50	1	mg/kg
Lead	14	SW6010C	94.7		0.489	0.500	1	mg/kg
Mercury	14RE1	SW7471B	0.387		0.147	0.147	20	mg/kg
Nickel	14	SW6010C	8.77		0.489	0.500	1	mg/kg
Zinc	14	SW6010C	61.7		0.489	0.500	1	mg/kg
pH	14	SW9045D	7.18		0.00	0.00	1	SU



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Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Laboratory Sample ID: 16L0048-15 Client Sample ID: SB-26

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	15	SW6010C	7.68		0.969	1.00	1	mg/kg
Cadmium	15	SW6010C	2.11		0.194	0.200	1	mg/kg
Chromium	15	SW6010C	17.5		0.484	0.500	1	mg/kg
Copper	15	SW6010C	25.7		0.484	2.50	1	mg/kg
Lead	15	SW6010C	56.6		0.484	0.500	1	mg/kg
Mercury	15	SW7471B	0.168		0.007	0.008	1	mg/kg
Nickel	15	SW6010C	8.97		0.484	0.500	1	mg/kg
Zinc	15	SW6010C	282		0.484	0.500	1	mg/kg
Naphthalene	15	SW8260B	1120		247	247	50	ug/kg
Pyrene	15	SW8270D	6610		3830	3830	25	ug/kg
Cyanide	15	SW9012B	5.56		0.99	0.99	1	mg/kg
pH	15	SW9045D	8.09		0.00	0.00	1	SU



Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Laboratory Sample ID: 16L0048-16 Client Sample ID: SB-27

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	16	SW6010C	5.17		0.970	1.00	1	mg/kg
Cadmium	16	SW6010C	1.53		0.194	0.200	1	mg/kg
Chromium	16	SW6010C	15.0		0.485	0.500	1	mg/kg
Copper	16	SW6010C	21.2		0.485	2.50	1	mg/kg
Lead	16	SW6010C	47.6		0.485	0.500	1	mg/kg
Mercury	16RE1	SW7471B	0.217		0.075	0.075	10	mg/kg
Nickel	16	SW6010C	8.20		0.485	0.500	1	mg/kg
Zinc	16	SW6010C	63.5		0.485	0.500	1	mg/kg
Naphthalene	16	SW8260B	510		240	240	50	ug/kg
Pyrene	16	SW8270D	7380		3830	3830	25	ug/kg
Cyanide	16	SW9012B	4.67		0.96	0.96	1	mg/kg
pH	16	SW9045D	7.25		0.00	0.00	1	SU

Laboratory Sample ID: 16L0048-17 Client Sample ID: SB-28

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	17	SW6010C	8.75		0.946	1.00	1	mg/kg
Cadmium	17	SW6010C	1.82		0.189	0.200	1	mg/kg
Chromium	17	SW6010C	13.3		0.473	0.500	1	mg/kg
Copper	17	SW6010C	32.3		0.473	2.50	1	mg/kg
Lead	17	SW6010C	247		0.473	0.500	1	mg/kg
Mercury	17RE1	SW7471B	0.501		0.153	0.153	20	mg/kg
Nickel	17	SW6010C	9.90		0.473	0.500	1	mg/kg
Zinc	17	SW6010C	105		0.473	0.500	1	mg/kg
pH	17	SW9045D	6.43		0.00	0.00	1	SU



Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Laboratory Sample ID: 16L0048-18 Client Sample ID: SB-29

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	18	SW6010C	4.23		0.969	1.00	1	mg/kg
Cadmium	18	SW6010C	0.816		0.194	0.200	1	mg/kg
Chromium	18	SW6010C	9.20		0.484	0.500	1	mg/kg
Copper	18	SW6010C	15.8		0.484	2.50	1	mg/kg
Lead	18	SW6010C	20.9		0.484	0.500	1	mg/kg
Mercury	18	SW7471B	0.107		0.007	0.008	1	mg/kg
Nickel	18	SW6010C	2.76		0.484	0.500	1	mg/kg
Zinc	18	SW6010C	22.2		0.484	0.500	1	mg/kg
pH	18	SW9045D	6.97		0.00	0.00	1	SU

Laboratory Sample ID: 16L0048-19 Client Sample ID: SB-30

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	19	SW6010C	3.92		0.950	1.00	1	mg/kg
Cadmium	19	SW6010C	1.35		0.190	0.200	1	mg/kg
Chromium	19	SW6010C	14.7		0.475	0.500	1	mg/kg
Copper	19	SW6010C	11.8		0.475	2.50	1	mg/kg
Lead	19	SW6010C	33.0		0.475	0.500	1	mg/kg
Mercury	19	SW7471B	0.148		0.008	0.008	1	mg/kg
Nickel	19	SW6010C	9.31		0.475	0.500	1	mg/kg
Zinc	19	SW6010C	43.3		0.475	0.500	1	mg/kg
pH	19	SW9045D	7.39		0.00	0.00	1	SU

Note that this report is not the "Certificate of Analysis". This report only lists the target analytes that displayed concentrations that exceeded the detection limit specified for that analyte. For a complete listing of all analytes requested and the results of the analysis see the "Certificate of Analysis".



1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 16L0048

Client Name: Timmons Group
1001 Boulders Parkway, Suite 300
Richmond, VA 23225

Date Received: December 1, 2016 16:07
Date Issued: November 22, 2017 11:35
Project Number: 36156.015
Purchase Order:

Submitted To: Julia Campus

Client Site I.D.: Fulton Gasworks

Enclosed are the results of analyses for samples received by the laboratory on 12/01/2016 16:07. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Mandy Mishra
Lab Director/Quality Assurance Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

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Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW 22	16L0048-01	Ground Water	12/01/2016 09:47	12/01/2016 16:07
MW 22	16L0048-02	Ground Water	12/01/2016 11:25	12/01/2016 16:07
MW 22	16L0048-03	Ground Water	12/01/2016 11:50	12/01/2016 16:07
MW 22	16L0048-04	Ground Water	12/01/2016 10:30	12/01/2016 16:07
MW-23	16L0048-05	Ground Water	12/01/2016 10:10	12/01/2016 16:07
MW-24	16L0048-06	Ground Water	12/01/2016 12:50	12/01/2016 16:07
MW-26	16L0048-07	Ground Water	12/01/2016 10:50	12/01/2016 16:07
MW-29	16L0048-08	Ground Water	12/01/2016 12:00	12/01/2016 16:07
MW-30	16L0048-09	Ground Water	12/01/2016 11:40	12/01/2016 16:07
Trip Blank	16L0048-10	Non-Potable Water	11/22/2016 14:25	12/01/2016 16:07
SB-22	16L0048-11	Soil	11/30/2016 10:30	12/01/2016 16:07
SB-23	16L0048-12	Soil	11/30/2016 11:00	12/01/2016 16:07
SB-24	16L0048-13	Soil	11/30/2016 16:45	12/01/2016 16:07
SB-25	16L0048-14	Soil	11/30/2016 15:30	12/01/2016 16:07
SB-26	16L0048-15	Soil	11/30/2016 11:30	12/01/2016 16:07
SB-27	16L0048-16	Soil	11/30/2016 12:30	12/01/2016 16:07
SB-28	16L0048-17	Soil	11/30/2016 13:00	12/01/2016 16:07
SB-29	16L0048-18	Soil	11/30/2016 14:15	12/01/2016 16:07
SB-30	16L0048-19	Soil	11/30/2016 16:45	12/01/2016 16:07

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

For PET ID analysis (sample #07), there are organic compounds in the diesel range present, but does not match diesel pattern, or any other common petroleum pattern.

This Certificate of Analysis is being reissued on November 22, 2017 to reflect report format changes per client request.

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW 22

Laboratory Sample ID: 16L0048-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
2,3,7,8-TCDD (SIM)	01	1746-01-6	EPA625	12/05/2016 09:16	12/08/2016 16:10	Not Detected				1	-	EWS
1,2,4,5-Tetrachlorobenzene	01	95-94-3	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	24.4	2	ug/L	EWS
1,2,4-Trichlorobenzene	01	120-82-1	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	24.4	2	ug/L	EWS
1,2-Dichlorobenzene	01	95-50-1	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
1,2-Diphenylhydrazine	01	122-66-7	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		24.4	24.4	2	ug/L	EWS
1,3-Dichlorobenzene	01	541-73-1	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
1,3-Dinitrobenzene	01	99-65-0	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		6.10	6.10	2	ug/L	EWS
1,4-Dichlorobenzene	01	106-46-7	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
1-Naphthylamine	01	134-32-7	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
2,3,4,6-Tetrachlorophenol	01	58-90-2	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
2,4,5-Trichlorophenol	01	95-95-4	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
2,4,6-Trichlorophenol	01	88-06-2	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
2,4-Dichlorophenol	01	120-83-2	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
2,4-Dimethylphenol	01	105-67-9	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		1.22	1.22	2	ug/L	EWS
2,4-Dinitrophenol	01	51-28-5	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD	C	1.22	122	2	ug/L	EWS
2,4-Dinitrotoluene	01	121-14-2	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
2,6-Dichlorophenol	01	87-65-0	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
2,6-Dinitrotoluene	01	606-20-2	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
2-Chloronaphthalene	01	91-58-7	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
2-Chlorophenol	01	95-57-8	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
2-Methylnaphthalene	01	91-57-6	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	24.4	2	ug/L	EWS
2-Naphthylamine	01	91-59-8	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	24.4	2	ug/L	EWS
2-Nitroaniline	01	88-74-4	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	48.8	2	ug/L	EWS
2-Nitrophenol	01	88-75-5	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS

Certificate of Analysis

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Client Sample ID: MW 22

Laboratory Sample ID: 16L0048-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
3,3'-Dichlorobenzidine	01	91-94-1	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		9.76	24.4	2	ug/L	EWS
3-Methylcholanthrene	01	56-49-5	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
3-Nitroaniline	01	99-09-2	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD	C	4.88	48.8	2	ug/L	EWS
4,6-Dinitro-2-methylphenol	01	534-52-1	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD	C	2.44	122	2	ug/L	EWS
4-Aminobiphenyl	01	92-67-1	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	24.4	2	ug/L	EWS
4-Bromophenyl phenyl ether	01	101-55-3	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
4-Chloroaniline	01	106-47-8	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	24.4	2	ug/L	EWS
4-Chlorophenyl phenyl ether	01	7005-72-3	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
4-Nitroaniline	01	100-01-6	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	48.8	2	ug/L	EWS
4-Nitrophenol	01	100-02-7	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	122	2	ug/L	EWS
7,12-Dimethylbenz (a) anthracene	01	57-97-6	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	24.4	2	ug/L	EWS
Acenaphthene	01	83-32-9	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Acenaphthylene	01	208-96-8	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Acetophenone	01	98-86-2	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	48.8	2	ug/L	EWS
Aniline	01	62-53-3	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD	C	4.88	122	2	ug/L	EWS
Anthracene	01	120-12-7	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Benzdine	01	92-87-5	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		122	122	2	ug/L	EWS
Benzo (a) anthracene	01	56-55-3	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		0.12	0.12	2	ug/L	EWS
Benzo (a) pyrene	01	50-32-8	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Benzo (b) fluoranthene	01	205-99-2	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Benzo (g,h,i) perylene	01	191-24-2	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Benzo (k) fluoranthene	01	207-08-9	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Benzoic acid	01	65-85-0	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	122	2	ug/L	EWS
Benzyl alcohol	01	100-51-6	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	48.8	2	ug/L	EWS

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Semivolatile Organic Compounds by GCMS												
bis (2-Chloroethoxy) methane	01	111-91-1	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
bis (2-Chloroethyl) ether	01	111-44-4	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
2,2'-Oxybis (1-chloropropane)	01	108-60-1	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
bis (2-Ethylhexyl) phthalate	01	117-81-7	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Butyl benzyl phthalate	01	85-68-7	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Chrysene	01	218-01-9	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Dibenz (a,h) anthracene	01	53-70-3	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Dibenz (a,j) acridine	01	224-42-0	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		7.32	24.4	2	ug/L	EWS
Dibenzofuran	01	132-64-9	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	12.2	2	ug/L	EWS
Diethyl phthalate	01	84-66-2	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Dimethyl phthalate	01	131-11-3	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Di-n-butyl phthalate	01	84-74-2	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	24.4	2	ug/L	EWS
Di-n-octyl phthalate	01	117-84-0	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Diphenylamine	01	122-39-4	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	24.4	2	ug/L	EWS
Ethyl methanesulfonate	01	62-50-0	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	48.8	2	ug/L	EWS
Fluoranthene	01	206-44-0	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Fluorene	01	86-73-7	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Hexachlorobenzene	01	118-74-1	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	2.44	2	ug/L	EWS
Hexachlorobutadiene	01	87-68-3	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Hexachlorocyclopentadiene	01	77-47-4	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD	C	2.44	24.4	2	ug/L	EWS
Hexachloroethane	01	67-72-1	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Indeno (1,2,3-cd) pyrene	01	193-39-5	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Isophorone	01	78-59-1	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
m+p-Cresols	01	84989-04-8	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS

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Semivolatile Organic Compounds by GCMS												
Methyl methanesulfonate	01	66-27-3	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Naphthalene	01	91-20-3	SW8270D	12/05/2016 09:16	12/07/2016 00:46	16.6		2.44	12.2	2	ug/L	EWS
Nitrobenzene	01	98-95-3	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
n-Nitrosodimethylamine	01	62-75-9	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	24.4	2	ug/L	EWS
n-Nitrosodi-n-butylamine	01	924-16-3	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	24.4	2	ug/L	EWS
n-Nitrosodi-n-propylamine	01	621-64-7	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	24.4	2	ug/L	EWS
n-Nitrosodiphenylamine	01	86-30-6	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
n-Nitrosopiperidine	01	100-75-4	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	24.4	2	ug/L	EWS
o+m+p-Cresols	01	1319-77-3	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		7.32	24.4	2	ug/L	EWS
o-Cresol	01	95-48-7	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
p-(Dimethylamino) azobenzene	01	60-11-7	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD	C	2.44	6.10	2	ug/L	EWS
p-Chloro-m-cresol	01	59-50-7	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Pentachloronitrobenzene (quintozene)	01	82-68-8	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Pentachlorophenol	01	87-86-5	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	48.8	2	ug/L	EWS
Phenacetin	01	62-44-2	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Phenanthrene	01	85-01-8	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Phenol	01	108-95-2	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Pronamide	01	23950-58-5	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		4.88	24.4	2	ug/L	EWS
Pyrene	01	129-00-0	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Pyridine	01	110-86-1	SW8270D	12/05/2016 09:16	12/07/2016 00:46	BLOD		2.44	24.4	2	ug/L	EWS
Surr: 2,4,6-Tribromophenol (Surr)	01	35.5 %	40-125	12/05/2016 09:16	12/07/2016 00:46							DS
Surr: 2-Fluorobiphenyl (Surr)	01	22.1 %	23-87	12/05/2016 09:16	12/07/2016 00:46							DS
Surr: 2-Fluorophenol (Surr)	01	16.8 %	14-52	12/05/2016 09:16	12/07/2016 00:46							
Surr: Nitrobenzene-d5 (Surr)	01	23.7 %	40-110	12/05/2016 09:16	12/07/2016 00:46							DS
Surr: Phenol-d5 (Surr)	01	10.0 %	5-33	12/05/2016 09:16	12/07/2016 00:46							

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Semivolatle Organic Compounds by GCMS												
Surr: <i>p-Terphenyl-d14 (Surr)</i>	01	31.3 %	27-133	12/05/2016 09:16	12/07/2016 00:46							

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Organochlorine Pesticides and PCBs by GC/ECD												
PCB as Aroclor 1016	01	12674-11-2	SW8082A	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.032	0.250	1	ug/L	SKS
PCB as Aroclor 1221	01	11104-28-2	SW8082A	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.250	0.250	1	ug/L	SKS
PCB as Aroclor 1232	01	11141-16-5	SW8082A	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.019	0.250	1	ug/L	SKS
PCB as Aroclor 1242	01	53469-21-9	SW8082A	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.051	0.250	1	ug/L	SKS
PCB as Aroclor 1248	01	12672-29-6	SW8082A	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.060	0.250	1	ug/L	SKS
PCB as Aroclor 1254	01	11097-69-1	SW8082A	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.044	0.250	1	ug/L	SKS
PCB as Aroclor 1260	01	11096-82-5	SW8082A	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.042	0.250	1	ug/L	SKS
<i>Surr: DCB</i>	<i>01</i>	<i>150 %</i>	<i>30-105</i>	<i>12/05/2016 13:48</i>	<i>12/07/2016 20:36</i>							<i>S</i>
<i>Surr: TCMX</i>	<i>01</i>	<i>100 %</i>	<i>30-105</i>	<i>12/05/2016 13:48</i>	<i>12/07/2016 20:36</i>							
4,4'-DDD	01	72-54-8	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.006	0.062	1	ug/L	SKS
4,4'-DDE	01	72-55-9	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.006	0.062	1	ug/L	SKS
4,4'-DDT	01	50-29-3	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.006	0.062	1	ug/L	SKS
Aldrin	01	309-00-2	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.006	0.062	1	ug/L	SKS
alpha-BHC	01	319-84-6	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.006	0.062	1	ug/L	SKS
beta-BHC	01	319-85-7	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.006	0.062	1	ug/L	SKS
Chlordane	01	57-74-9	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.250	0.250	1	ug/L	SKS
delta-BHC	01	319-86-8	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.002	0.062	1	ug/L	SKS
Dieldrin	01	60-57-1	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.004	0.062	1	ug/L	SKS
Endosulfan I	01	959-98-8	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.002	0.062	1	ug/L	SKS
Endosulfan II	01	33213-65-9	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.002	0.062	1	ug/L	SKS
Endosulfan sulfate	01	1031-07-8	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.002	0.062	1	ug/L	SKS
Endrin	01	72-20-8	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.002	0.062	1	ug/L	SKS
Endrin aldehyde	01	7421-93-4	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.002	0.062	1	ug/L	SKS
gamma-BHC (Lindane)	01	58-89-9	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.004	0.062	1	ug/L	SKS

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Organochlorine Pesticides and PCBs by GC/ECD												
Heptachlor	01	76-44-8	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.004	0.062	1	ug/L	SKS
Heptachlor epoxide	01	1024-57-3	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.002	0.062	1	ug/L	SKS
Methoxychlor	01	72-43-5	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.005	0.062	1	ug/L	SKS
Toxaphene	01	8001-35-2	SW8081B	12/05/2016 13:48	12/07/2016 20:36	BLOD		0.250	1.25	1	ug/L	SKS
Surr: TCMX	01	50.0 %	18-112	12/05/2016 13:48	12/07/2016 20:36							
Surr: DCB	01	90.0 %	27-131	12/05/2016 13:48	12/07/2016 20:36							

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Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW 22

Laboratory Sample ID: 16L0048-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 200 Series Methods												
Silver	02	7440-22-4	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:42	BLOD		0.0020	0.0100	1	mg/L	CWO
Beryllium	02RE1	7440-41-7	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 14:25	BLOD		0.0100	0.0200	5	mg/L	CWO
Cadmium	02	7440-43-9	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:42	0.0180		0.0020	0.0040	1	mg/L	CWO
Chromium	02	7440-47-3	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:42	0.123		0.0040	0.0100	1	mg/L	CWO
Copper	02	7440-50-8	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:42	BLOD		0.0030	0.0100	1	mg/L	CWO
Mercury	02	7439-97-6	EPA245.1 R3.0	12/06/2016 13:59	12/07/2016 12:43	BLOD		0.0002	0.0002	1	mg/L	RCV
Nickel	02	7440-02-0	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:42	0.0981		0.0020	0.0100	1	mg/L	CWO
Lead	02	7439-92-1	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:42	0.0859		0.0060	0.0100	1	mg/L	CWO
Zinc	02	7440-66-6	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:42	0.352		0.0100	0.0100	1	mg/L	CWO

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW 22

Laboratory Sample ID: 16L0048-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Arsenic	02	7440-38-2	SW7010	12/05/2016 15:00	12/06/2016 11:08	0.0222		0.0030	0.0050	1	mg/L	MWL
Antimony	02	7440-36-0	SW7010	12/05/2016 15:00	12/06/2016 23:54	BLOD		0.0030	0.0050	1	mg/L	MWL
Selenium	02	7782-49-2	SW7010	12/05/2016 15:00	12/07/2016 14:18	BLOD		0.0020	0.0030	1	mg/L	MWL
Thallium	02	7440-28-0	SW7010	12/05/2016 15:00	12/06/2016 11:47	BLOD		0.0020	0.0020	1	mg/L	MWL

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW 22

Laboratory Sample ID: 16L0048-03

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Wet Chemistry Analysis												
Cyanide	03	57-12-5	SW9012B	12/06/2016 15:33	12/06/2016 15:33	0.94	CI	0.05	0.05	5	mg/L	BBP

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW 22

Laboratory Sample ID: 16L0048-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	04	630-20-6	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.10	0.40	1	ug/L	KCS
1,1,1-Trichloroethane	04	71-55-6	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.70	1.00	1	ug/L	KCS
1,1,2,2-Tetrachloroethane	04	79-34-5	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.40	0.40	1	ug/L	KCS
1,1,2-Trichloroethane	04	79-00-5	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.50	1.00	1	ug/L	KCS
1,1-Dichloroethane	04	75-34-3	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.40	1.00	1	ug/L	KCS
1,1-Dichloroethylene	04	75-35-4	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.30	1.00	1	ug/L	KCS
1,1-Dichloropropene	04	563-58-6	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.20	1.00	1	ug/L	KCS
1,2,3-Trichlorobenzene	04	87-61-6	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.30	1.00	1	ug/L	KCS
1,2,3-Trichloropropane	04	96-18-4	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.40	1.00	1	ug/L	KCS
1,2,4-Trichlorobenzene	04	120-82-1	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.30	1.00	1	ug/L	KCS
1,2,4-Trimethylbenzene	04	95-63-6	SW8260B	12/02/2016 13:20	12/02/2016 13:20	0.65	J	0.20	1.00	1	ug/L	KCS
1,2-Dibromo-3-chloropropane (DBCP)	04	96-12-8	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.80	4.00	1	ug/L	KCS
1,2-Dibromoethane (EDB)	04	106-93-4	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.40	1.00	1	ug/L	KCS
1,2-Dichlorobenzene	04	95-50-1	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.20	1.00	1	ug/L	KCS
1,2-Dichloroethane	04	107-06-2	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.90	1.00	1	ug/L	KCS
1,2-Dichloropropane	04	78-87-5	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.60	1.00	1	ug/L	KCS
1,3,5-Trimethylbenzene	04	108-67-8	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.20	1.00	1	ug/L	KCS
1,3-Dichlorobenzene	04	541-73-1	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.20	1.00	1	ug/L	KCS
1,3-Dichloropropane	04	142-28-9	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.20	1.00	1	ug/L	KCS
1,4-Dichlorobenzene	04	106-46-7	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.40	1.00	1	ug/L	KCS
2,2-Dichloropropane	04	594-20-7	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.30	2.00	1	ug/L	KCS
2-Butanone (MEK)	04	78-93-3	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		5.00	10.0	1	ug/L	KCS
2-Chlorotoluene	04	95-49-8	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.20	1.00	1	ug/L	KCS
2-Hexanone (MBK)	04	591-78-6	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		5.00	5.00	1	ug/L	KCS

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW 22

Laboratory Sample ID: 16L0048-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Chlorotoluene	04	106-43-4	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.20	1.00	1	ug/L	KCS
4-Isopropyltoluene	04	99-87-6	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.20	1.00	1	ug/L	KCS
4-Methyl-2-pentanone (MIBK)	04	108-10-1	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		5.00	5.00	1	ug/L	KCS
Acetone	04	67-64-1	SW8260B	12/02/2016 13:20	12/02/2016 13:20	10.3		7.00	10.0	1	ug/L	KCS
Benzene	04	71-43-2	SW8260B	12/02/2016 13:20	12/02/2016 13:20	11.7		0.30	1.00	1	ug/L	KCS
Bromobenzene	04	108-86-1	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.20	1.00	1	ug/L	KCS
Bromochloromethane	04	74-97-5	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.40	1.00	1	ug/L	KCS
Bromodichloromethane	04	75-27-4	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.30	0.50	1	ug/L	KCS
Bromoform	04	75-25-2	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.50	1.00	1	ug/L	KCS
Bromomethane	04	74-83-9	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.30	1.00	1	ug/L	KCS
Carbon disulfide	04	75-15-0	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		1.00	10.0	1	ug/L	KCS
Carbon tetrachloride	04	56-23-5	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.40	1.00	1	ug/L	KCS
Chlorobenzene	04	108-90-7	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.40	1.00	1	ug/L	KCS
Chloroethane	04	75-00-3	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.40	1.00	1	ug/L	KCS
Chloroform	04	67-66-3	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.40	0.50	1	ug/L	KCS
Chloromethane	04	74-87-3	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.50	1.00	1	ug/L	KCS
cis-1,2-Dichloroethylene	04	156-59-2	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.40	1.00	1	ug/L	KCS
cis-1,3-Dichloropropene	04	10061-01-5	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.20	1.00	1	ug/L	KCS
Dibromochloromethane	04	124-48-1	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.70	1.00	1	ug/L	KCS
Dibromomethane	04	74-95-3	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.30	1.00	1	ug/L	KCS
Dichlorodifluoromethane	04	75-71-8	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		1.00	1.00	1	ug/L	KCS
Di-isopropyl ether (DIPE)	04	108-20-3	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		5.00	5.00	1	ug/L	KCS
Ethylbenzene	04	100-41-4	SW8260B	12/02/2016 13:20	12/02/2016 13:20	3.40		0.20	1.00	1	ug/L	KCS
Hexachlorobutadiene	04	87-68-3	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		1.00	1.00	1	ug/L	KCS

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW 22

Laboratory Sample ID: 16L0048-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	04	74-88-4	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		1.70	10.0	1	ug/L	KCS
Isopropylbenzene	04	98-82-8	SW8260B	12/02/2016 13:20	12/02/2016 13:20	0.25	J	0.20	1.00	1	ug/L	KCS
m+p-Xylenes	04	179601-23-1	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.50	2.00	1	ug/L	KCS
Methylene chloride	04	75-09-2	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		1.00	4.00	1	ug/L	KCS
Methyl-t-butyl ether (MTBE)	04	1634-04-4	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.40	1.00	1	ug/L	KCS
Naphthalene	04	91-20-3	SW8260B	12/02/2016 13:20	12/02/2016 13:20	81.2		0.50	1.00	1	ug/L	KCS
n-Butylbenzene	04	104-51-8	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.10	1.00	1	ug/L	KCS
n-Propylbenzene	04	103-65-1	SW8260B	12/02/2016 13:20	12/02/2016 13:20	0.21	J	0.10	1.00	1	ug/L	KCS
o-Xylene	04	95-47-6	SW8260B	12/02/2016 13:20	12/02/2016 13:20	1.60		0.50	1.00	1	ug/L	KCS
sec-Butylbenzene	04	135-98-8	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.10	1.00	1	ug/L	KCS
Styrene	04	100-42-5	SW8260B	12/02/2016 13:20	12/02/2016 13:20	0.28	J	0.20	1.00	1	ug/L	KCS
tert-Butylbenzene	04	98-06-6	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.10	1.00	1	ug/L	KCS
Tetrachloroethylene (PCE)	04	127-18-4	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.40	1.00	1	ug/L	KCS
Toluene	04	108-88-3	SW8260B	12/02/2016 13:20	12/02/2016 13:20	0.84	J	0.40	1.00	1	ug/L	KCS
trans-1,2-Dichloroethylene	04	156-60-5	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.40	1.00	1	ug/L	KCS
trans-1,3-Dichloropropene	04	10061-02-6	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.50	1.00	1	ug/L	KCS
Trichloroethylene	04	79-01-6	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.30	1.00	1	ug/L	KCS
Trichlorofluoromethane	04	75-69-4	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.20	1.00	1	ug/L	KCS
Vinyl acetate	04	108-05-4	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		2.20	10.0	1	ug/L	KCS
Vinyl chloride	04	75-01-4	SW8260B	12/02/2016 13:20	12/02/2016 13:20	BLOD		0.30	0.50	1	ug/L	KCS
Xylenes, Total	04	1330-20-7	SW8260B	12/02/2016 13:20	12/02/2016 13:20	1.99	J	1.00	3.00	1	ug/L	KCS
Surr: 1,2-Dichloroethane-d4 (Surr)	04	101 %	70-120	12/02/2016 13:20	12/02/2016 13:20							
Surr: 4-Bromofluorobenzene (Surr)	04	100 %	75-120	12/02/2016 13:20	12/02/2016 13:20							
Surr: Dibromofluoromethane (Surr)	04	96.6 %	80-119	12/02/2016 13:20	12/02/2016 13:20							

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW 22

Laboratory Sample ID: 16L0048-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
<i>Surr: Toluene-d8 (Surr)</i>	04	102 %	85-120	12/02/2016 13:20	12/02/2016 13:20							

Certificate of Analysis

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Client Site I.D.: Fulton Gasworks
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Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW-23

Laboratory Sample ID: 16L0048-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 200 Series Methods												
Silver	05	7440-22-4	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:44	BLOD		0.0020	0.0100	1	mg/L	CWO
Beryllium	05RE1	7440-41-7	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 14:27	BLOD		0.0100	0.0200	5	mg/L	CWO
Cadmium	05	7440-43-9	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:44	0.0285		0.0020	0.0040	1	mg/L	CWO
Chromium	05	7440-47-3	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:44	0.147		0.0040	0.0100	1	mg/L	CWO
Copper	05	7440-50-8	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:44	0.0103		0.0030	0.0100	1	mg/L	CWO
Mercury	05	7439-97-6	EPA245.1 R3.0	12/06/2016 13:59	12/07/2016 12:45	0.0003		0.0002	0.0002	1	mg/L	RCV
Nickel	05	7440-02-0	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:44	0.0593		0.0020	0.0100	1	mg/L	CWO
Lead	05	7439-92-1	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:44	0.186		0.0060	0.0100	1	mg/L	CWO
Zinc	05	7440-66-6	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:44	0.759		0.0100	0.0100	1	mg/L	CWO

Certificate of Analysis

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Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW-23

Laboratory Sample ID: 16L0048-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Arsenic	05	7440-38-2	SW7010	12/05/2016 15:00	12/06/2016 11:14	0.0240		0.0030	0.0050	1	mg/L	MWL
Antimony	05	7440-36-0	SW7010	12/05/2016 15:00	12/07/2016 00:00	BLOD		0.0030	0.0050	1	mg/L	MWL
Selenium	05	7782-49-2	SW7010	12/05/2016 15:00	12/07/2016 14:23	BLOD		0.0020	0.0030	1	mg/L	MWL
Thallium	05	7440-28-0	SW7010	12/05/2016 15:00	12/06/2016 11:53	BLOD		0.0020	0.0020	1	mg/L	MWL

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW-23

Laboratory Sample ID: 16L0048-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	05	630-20-6	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		0.50	2.00	5	ug/L	KCS
1,1,1-Trichloroethane	05	71-55-6	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		3.50	5.00	5	ug/L	KCS
1,1,2,2-Tetrachloroethane	05	79-34-5	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.00	2.00	5	ug/L	KCS
1,1,2-Trichloroethane	05	79-00-5	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.50	5.00	5	ug/L	KCS
1,1-Dichloroethane	05	75-34-3	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.00	5.00	5	ug/L	KCS
1,1-Dichloroethylene	05	75-35-4	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.50	5.00	5	ug/L	KCS
1,1-Dichloropropene	05	563-58-6	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.00	5.00	5	ug/L	KCS
1,2,3-Trichlorobenzene	05	87-61-6	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.50	5.00	5	ug/L	KCS
1,2,3-Trichloropropane	05	96-18-4	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.00	5.00	5	ug/L	KCS
1,2,4-Trichlorobenzene	05	120-82-1	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.50	5.00	5	ug/L	KCS
1,2,4-Trimethylbenzene	05	95-63-6	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.00	5.00	5	ug/L	KCS
1,2-Dibromo-3-chloropropane (DBCP)	05	96-12-8	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		4.00	20.0	5	ug/L	KCS
1,2-Dibromoethane (EDB)	05	106-93-4	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.00	5.00	5	ug/L	KCS
1,2-Dichlorobenzene	05	95-50-1	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.00	5.00	5	ug/L	KCS
1,2-Dichloroethane	05	107-06-2	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		4.50	5.00	5	ug/L	KCS
1,2-Dichloropropane	05	78-87-5	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		3.00	5.00	5	ug/L	KCS
1,3,5-Trimethylbenzene	05	108-67-8	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.00	5.00	5	ug/L	KCS
1,3-Dichlorobenzene	05	541-73-1	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.00	5.00	5	ug/L	KCS
1,3-Dichloropropane	05	142-28-9	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.00	5.00	5	ug/L	KCS
1,4-Dichlorobenzene	05	106-46-7	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.00	5.00	5	ug/L	KCS
2,2-Dichloropropane	05	594-20-7	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.50	10.0	5	ug/L	KCS
2-Butanone (MEK)	05	78-93-3	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		25.0	50.0	5	ug/L	KCS
2-Chlorotoluene	05	95-49-8	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.00	5.00	5	ug/L	KCS
2-Hexanone (MBK)	05	591-78-6	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		25.0	25.0	5	ug/L	KCS

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Client Sample ID: MW-23

Laboratory Sample ID: 16L0048-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Chlorotoluene	05	106-43-4	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.00	5.00	5	ug/L	KCS
4-Isopropyltoluene	05	99-87-6	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.00	5.00	5	ug/L	KCS
4-Methyl-2-pentanone (MIBK)	05	108-10-1	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		25.0	25.0	5	ug/L	KCS
Acetone	05	67-64-1	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		35.0	50.0	5	ug/L	KCS
Benzene	05	71-43-2	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.50	5.00	5	ug/L	KCS
Bromobenzene	05	108-86-1	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.00	5.00	5	ug/L	KCS
Bromochloromethane	05	74-97-5	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.00	5.00	5	ug/L	KCS
Bromodichloromethane	05	75-27-4	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.50	2.50	5	ug/L	KCS
Bromoform	05	75-25-2	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.50	5.00	5	ug/L	KCS
Bromomethane	05	74-83-9	SW8260B	12/02/2016 13:43	12/02/2016 13:43	2.06	J	1.50	5.00	5	ug/L	KCS
Carbon disulfide	05	75-15-0	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		5.00	50.0	5	ug/L	KCS
Carbon tetrachloride	05	56-23-5	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.00	5.00	5	ug/L	KCS
Chlorobenzene	05	108-90-7	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.00	5.00	5	ug/L	KCS
Chloroethane	05	75-00-3	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.00	5.00	5	ug/L	KCS
Chloroform	05	67-66-3	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.00	2.50	5	ug/L	KCS
Chloromethane	05	74-87-3	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.50	5.00	5	ug/L	KCS
cis-1,2-Dichloroethylene	05	156-59-2	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.00	5.00	5	ug/L	KCS
cis-1,3-Dichloropropene	05	10061-01-5	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.00	5.00	5	ug/L	KCS
Dibromochloromethane	05	124-48-1	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		3.50	5.00	5	ug/L	KCS
Dibromomethane	05	74-95-3	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.50	5.00	5	ug/L	KCS
Dichlorodifluoromethane	05	75-71-8	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		5.00	5.00	5	ug/L	KCS
Di-isopropyl ether (DIPE)	05	108-20-3	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		25.0	25.0	5	ug/L	KCS
Ethylbenzene	05	100-41-4	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.00	5.00	5	ug/L	KCS
Hexachlorobutadiene	05	87-68-3	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		5.00	5.00	5	ug/L	KCS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	05	74-88-4	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		8.50	50.0	5	ug/L	KCS
Isopropylbenzene	05	98-82-8	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.00	5.00	5	ug/L	KCS
m+p-Xylenes	05	179601-23-1	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.50	10.0	5	ug/L	KCS
Methylene chloride	05	75-09-2	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		5.00	20.0	5	ug/L	KCS
Methyl-t-butyl ether (MTBE)	05	1634-04-4	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.00	5.00	5	ug/L	KCS
Naphthalene	05RE1	91-20-3	SW8260B	12/05/2016 14:33	12/05/2016 14:33	4.25	J	2.50	5.00	5	ug/L	KCS
n-Butylbenzene	05	104-51-8	SW8260B	12/02/2016 13:43	12/02/2016 13:43	0.65	J	0.50	5.00	5	ug/L	KCS
n-Propylbenzene	05	103-65-1	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		0.50	5.00	5	ug/L	KCS
o-Xylene	05	95-47-6	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.50	5.00	5	ug/L	KCS
sec-Butylbenzene	05	135-98-8	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		0.50	5.00	5	ug/L	KCS
Styrene	05	100-42-5	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.00	5.00	5	ug/L	KCS
tert-Butylbenzene	05	98-06-6	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		0.50	5.00	5	ug/L	KCS
Tetrachloroethylene (PCE)	05	127-18-4	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.00	5.00	5	ug/L	KCS
Toluene	05	108-88-3	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.00	5.00	5	ug/L	KCS
trans-1,2-Dichloroethylene	05	156-60-5	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.00	5.00	5	ug/L	KCS
trans-1,3-Dichloropropene	05	10061-02-6	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		2.50	5.00	5	ug/L	KCS
Trichloroethylene	05	79-01-6	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.50	5.00	5	ug/L	KCS
Trichlorofluoromethane	05	75-69-4	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.00	5.00	5	ug/L	KCS
Vinyl acetate	05	108-05-4	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		11.0	50.0	5	ug/L	KCS
Vinyl chloride	05	75-01-4	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		1.50	2.50	5	ug/L	KCS
Xylenes, Total	05	1330-20-7	SW8260B	12/02/2016 13:43	12/02/2016 13:43	BLOD		5.00	15.0	5	ug/L	KCS
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	05	93.8 %	70-120	12/02/2016 13:43	12/02/2016 13:43							
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	05	101 %	75-120	12/02/2016 13:43	12/02/2016 13:43							
<i>Surr: Dibromofluoromethane (Surr)</i>	05	98.2 %	80-119	12/02/2016 13:43	12/02/2016 13:43							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Surr: Toluene-d8 (Surr)	05	101 %	85-120	12/02/2016 13:43	12/02/2016 13:43							
Surr: 1,2-Dichloroethane-d4 (Surr)	05RE1	97.4 %	70-120	12/05/2016 14:33	12/05/2016 14:33							
Surr: 4-Bromofluorobenzene (Surr)	05RE1	94.5 %	75-120	12/05/2016 14:33	12/05/2016 14:33							
Surr: Dibromofluoromethane (Surr)	05RE1	101 %	80-119	12/05/2016 14:33	12/05/2016 14:33							
Surr: Toluene-d8 (Surr)	05RE1	99.1 %	85-120	12/05/2016 14:33	12/05/2016 14:33							
Semivolatile Organic Compounds by GCMS												
2,3,7,8-TCDD (SIM)	05	1746-01-6	EPA625	12/05/2016 09:16	12/08/2016 16:10	Not Detected				1	-	EWS
1,2,4,5-Tetrachlorobenzene	05	95-94-3	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	24.7	2	ug/L	EWS
1,2,4-Trichlorobenzene	05	120-82-1	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	24.7	2	ug/L	EWS
1,2-Dichlorobenzene	05	95-50-1	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
1,2-Diphenylhydrazine	05	122-66-7	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		24.7	24.7	2	ug/L	EWS
1,3-Dichlorobenzene	05	541-73-1	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
1,3-Dinitrobenzene	05	99-65-0	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		6.17	6.17	2	ug/L	EWS
1,4-Dichlorobenzene	05	106-46-7	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
1-Naphthylamine	05	134-32-7	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
2,3,4,6-Tetrachlorophenol	05	58-90-2	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
2,4,5-Trichlorophenol	05	95-95-4	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
2,4,6-Trichlorophenol	05	88-06-2	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
2,4-Dichlorophenol	05	120-83-2	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
2,4-Dimethylphenol	05	105-67-9	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		1.23	1.23	2	ug/L	EWS
2,4-Dinitrophenol	05	51-28-5	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD	C	1.23	123	2	ug/L	EWS
2,4-Dinitrotoluene	05	121-14-2	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
2,6-Dichlorophenol	05	87-65-0	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
2,6-Dinitrotoluene	05	606-20-2	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
2-Chloronaphthalene	05	91-58-7	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
2-Chlorophenol	05	95-57-8	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
2-Methylnaphthalene	05	91-57-6	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	24.7	2	ug/L	EWS
2-Naphthylamine	05	91-59-8	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	24.7	2	ug/L	EWS
2-Nitroaniline	05	88-74-4	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	49.4	2	ug/L	EWS
2-Nitrophenol	05	88-75-5	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
3,3'-Dichlorobenzidine	05	91-94-1	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		9.88	24.7	2	ug/L	EWS
3-Methylcholanthrene	05	56-49-5	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
3-Nitroaniline	05	99-09-2	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD	C	4.94	49.4	2	ug/L	EWS
4,6-Dinitro-2-methylphenol	05	534-52-1	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD	C	2.47	123	2	ug/L	EWS
4-Aminobiphenyl	05	92-67-1	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	24.7	2	ug/L	EWS
4-Bromophenyl phenyl ether	05	101-55-3	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
4-Chloroaniline	05	106-47-8	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	24.7	2	ug/L	EWS
4-Chlorophenyl phenyl ether	05	7005-72-3	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
4-Nitroaniline	05	100-01-6	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	49.4	2	ug/L	EWS
4-Nitrophenol	05	100-02-7	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	123	2	ug/L	EWS
7,12-Dimethylbenz (a) anthracene	05	57-97-6	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	24.7	2	ug/L	EWS
Acenaphthene	05	83-32-9	SW8270D	12/05/2016 09:16	12/07/2016 01:23	26.1		2.47	24.7	2	ug/L	EWS
Acenaphthylene	05	208-96-8	SW8270D	12/05/2016 09:16	12/07/2016 01:23	4.40	J	2.47	24.7	2	ug/L	EWS
Acetophenone	05	98-86-2	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	49.4	2	ug/L	EWS
Aniline	05	62-53-3	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD	C	4.94	123	2	ug/L	EWS
Anthracene	05	120-12-7	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Benzdine	05	92-87-5	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		123	123	2	ug/L	EWS
Benzo (a) anthracene	05	56-55-3	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		0.12	0.12	2	ug/L	EWS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Benzo (a) pyrene	05	50-32-8	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Benzo (b) fluoranthene	05	205-99-2	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Benzo (g,h,i) perylene	05	191-24-2	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Benzo (k) fluoranthene	05	207-08-9	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Benzoic acid	05	65-85-0	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	123	2	ug/L	EWS
Benzyl alcohol	05	100-51-6	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	49.4	2	ug/L	EWS
bis (2-Chloroethoxy) methane	05	111-91-1	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
bis (2-Chloroethyl) ether	05	111-44-4	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
2,2'-Oxybis (1-chloropropane)	05	108-60-1	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
bis (2-Ethylhexyl) phthalate	05	117-81-7	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Butyl benzyl phthalate	05	85-68-7	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Chrysene	05	218-01-9	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Dibenz (a,h) anthracene	05	53-70-3	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Dibenz (a,j) acridine	05	224-42-0	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		7.41	24.7	2	ug/L	EWS
Dibenzofuran	05	132-64-9	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	12.3	2	ug/L	EWS
Diethyl phthalate	05	84-66-2	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Dimethyl phthalate	05	131-11-3	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Di-n-butyl phthalate	05	84-74-2	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	24.7	2	ug/L	EWS
Di-n-octyl phthalate	05	117-84-0	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Diphenylamine	05	122-39-4	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	24.7	2	ug/L	EWS
Ethyl methanesulfonate	05	62-50-0	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	49.4	2	ug/L	EWS
Fluoranthene	05	206-44-0	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Fluorene	05	86-73-7	SW8270D	12/05/2016 09:16	12/07/2016 01:23	11.1	J	2.47	24.7	2	ug/L	EWS
Hexachlorobenzene	05	118-74-1	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	2.47	2	ug/L	EWS

Certificate of Analysis

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Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW-23

Laboratory Sample ID: 16L0048-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Hexachlorobutadiene	05	87-68-3	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Hexachlorocyclopentadiene	05	77-47-4	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD	C	2.47	24.7	2	ug/L	EWS
Hexachloroethane	05	67-72-1	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Indeno (1,2,3-cd) pyrene	05	193-39-5	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Isophorone	05	78-59-1	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
m+p-Cresols	05	84989-04-8	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Methyl methanesulfonate	05	66-27-3	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Naphthalene	05	91-20-3	SW8270D	12/05/2016 09:16	12/07/2016 01:23	19.7		2.47	12.3	2	ug/L	EWS
Nitrobenzene	05	98-95-3	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
n-Nitrosodimethylamine	05	62-75-9	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	24.7	2	ug/L	EWS
n-Nitrosodi-n-butylamine	05	924-16-3	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	24.7	2	ug/L	EWS
n-Nitrosodi-n-propylamine	05	621-64-7	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	24.7	2	ug/L	EWS
n-Nitrosodiphenylamine	05	86-30-6	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
n-Nitrosopiperidine	05	100-75-4	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	24.7	2	ug/L	EWS
o+m+p-Cresols	05	1319-77-3	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		7.41	24.7	2	ug/L	EWS
o-Cresol	05	95-48-7	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
p-(Dimethylamino) azobenzene	05	60-11-7	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD	C	2.47	6.17	2	ug/L	EWS
p-Chloro-m-cresol	05	59-50-7	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Pentachloronitrobenzene (quintozene)	05	82-68-8	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Pentachlorophenol	05	87-86-5	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	49.4	2	ug/L	EWS
Phenacetin	05	62-44-2	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Phenanthrene	05	85-01-8	SW8270D	12/05/2016 09:16	12/07/2016 01:23	3.85	J	2.47	24.7	2	ug/L	EWS
Phenol	05	108-95-2	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
Pronamide	05	23950-58-5	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		4.94	24.7	2	ug/L	EWS

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Laboratory Sample ID: 16L0048-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Pyrene	05	129-00-0	SW8270D	12/05/2016 09:16	12/07/2016 01:23	3.57	J	2.47	24.7	2	ug/L	EWS
Pyridine	05	110-86-1	SW8270D	12/05/2016 09:16	12/07/2016 01:23	BLOD		2.47	24.7	2	ug/L	EWS
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	05	30.9 %	40-125	12/05/2016 09:16	12/07/2016 01:23							DS
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	05	20.0 %	23-87	12/05/2016 09:16	12/07/2016 01:23							DS
<i>Surr: 2-Fluorophenol (Surr)</i>	05	13.8 %	14-52	12/05/2016 09:16	12/07/2016 01:23							DS
<i>Surr: Nitrobenzene-d5 (Surr)</i>	05	21.4 %	40-110	12/05/2016 09:16	12/07/2016 01:23							DS
<i>Surr: Phenol-d5 (Surr)</i>	05	8.56 %	5-33	12/05/2016 09:16	12/07/2016 01:23							DS
<i>Surr: p-Terphenyl-d14 (Surr)</i>	05	24.8 %	27-133	12/05/2016 09:16	12/07/2016 01:23							DS

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Organochlorine Pesticides and PCBs by GC/ECD												
PCB as Aroclor 1016	05	12674-11-2	SW8082A	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.033	0.253	1	ug/L	SKS
PCB as Aroclor 1221	05	11104-28-2	SW8082A	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.253	0.253	1	ug/L	SKS
PCB as Aroclor 1232	05	11141-16-5	SW8082A	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.019	0.253	1	ug/L	SKS
PCB as Aroclor 1242	05	53469-21-9	SW8082A	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.052	0.253	1	ug/L	SKS
PCB as Aroclor 1248	05	12672-29-6	SW8082A	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.061	0.253	1	ug/L	SKS
PCB as Aroclor 1254	05	11097-69-1	SW8082A	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.044	0.253	1	ug/L	SKS
PCB as Aroclor 1260	05	11096-82-5	SW8082A	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.043	0.253	1	ug/L	SKS
Surr: DCB	05	110 %	30-105	12/05/2016 13:48	12/07/2016 20:55							S
Surr: TCMX	05	110 %	30-105	12/05/2016 13:48	12/07/2016 20:55							S
4,4'-DDD	05	72-54-8	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.006	0.063	1	ug/L	SKS
4,4'-DDE	05	72-55-9	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.006	0.063	1	ug/L	SKS
4,4'-DDT	05	50-29-3	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.006	0.063	1	ug/L	SKS
Aldrin	05	309-00-2	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.006	0.063	1	ug/L	SKS
alpha-BHC	05	319-84-6	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.006	0.063	1	ug/L	SKS
beta-BHC	05	319-85-7	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.006	0.063	1	ug/L	SKS
Chlordane	05	57-74-9	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.253	0.253	1	ug/L	SKS
delta-BHC	05	319-86-8	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.003	0.063	1	ug/L	SKS
Dieldrin	05	60-57-1	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.004	0.063	1	ug/L	SKS
Endosulfan I	05	959-98-8	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.003	0.063	1	ug/L	SKS
Endosulfan II	05	33213-65-9	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.003	0.063	1	ug/L	SKS
Endosulfan sulfate	05	1031-07-8	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.003	0.063	1	ug/L	SKS
Endrin	05	72-20-8	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.003	0.063	1	ug/L	SKS
Endrin aldehyde	05	7421-93-4	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.003	0.063	1	ug/L	SKS
gamma-BHC (Lindane)	05	58-89-9	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.004	0.063	1	ug/L	SKS

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Laboratory Sample ID: 16L0048-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
Heptachlor	05	76-44-8	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.004	0.063	1	ug/L	SKS
Heptachlor epoxide	05	1024-57-3	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.003	0.063	1	ug/L	SKS
Methoxychlor	05	72-43-5	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.005	0.063	1	ug/L	SKS
Toxaphene	05	8001-35-2	SW8081B	12/05/2016 13:48	12/07/2016 20:55	BLOD		0.253	1.27	1	ug/L	SKS
Surr: TCMX	05	75.0 %	18-112	12/05/2016 13:48	12/07/2016 20:55							
Surr: DCB	05	75.0 %	27-131	12/05/2016 13:48	12/07/2016 20:55							

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Laboratory Sample ID: 16L0048-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Wet Chemistry Analysis												
Cyanide	05	57-12-5	SW9012B	12/06/2016 15:57	12/06/2016 15:57	0.48	CI	0.05	0.05	5	mg/L	BBP

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Client Sample ID: MW-24

Laboratory Sample ID: 16L0048-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 200 Series Methods												
Silver	06	7440-22-4	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:46	BLOD		0.0020	0.0100	1	mg/L	CWO
Beryllium	06RE1	7440-41-7	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 14:28	BLOD		0.0100	0.0200	5	mg/L	CWO
Cadmium	06	7440-43-9	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:46	0.0075		0.0020	0.0040	1	mg/L	CWO
Chromium	06	7440-47-3	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:46	0.120		0.0040	0.0100	1	mg/L	CWO
Copper	06	7440-50-8	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:46	0.0622		0.0030	0.0100	1	mg/L	CWO
Mercury	06	7439-97-6	EPA245.1 R3.0	12/06/2016 13:59	12/07/2016 12:48	BLOD		0.0002	0.0002	1	mg/L	RCV
Nickel	06	7440-02-0	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:46	0.0588		0.0020	0.0100	1	mg/L	CWO
Lead	06	7439-92-1	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:46	0.0618		0.0060	0.0100	1	mg/L	CWO
Zinc	06	7440-66-6	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 11:46	0.209		0.0100	0.0100	1	mg/L	CWO

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Laboratory Sample ID: 16L0048-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Arsenic	06	7440-38-2	SW7010	12/05/2016 15:00	12/06/2016 11:20	0.0284		0.0030	0.0050	1	mg/L	MWL
Antimony	06	7440-36-0	SW7010	12/05/2016 15:00	12/07/2016 00:05	BLOD		0.0030	0.0050	1	mg/L	MWL
Selenium	06	7782-49-2	SW7010	12/05/2016 15:00	12/07/2016 14:29	0.0032		0.0020	0.0030	1	mg/L	MWL
Thallium	06	7440-28-0	SW7010	12/05/2016 15:00	12/06/2016 11:59	BLOD		0.0020	0.0020	1	mg/L	MWL

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Laboratory Sample ID: 16L0048-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	06	630-20-6	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.10	0.40	1	ug/L	KCS
1,1,1-Trichloroethane	06	71-55-6	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.70	1.00	1	ug/L	KCS
1,1,1,2-Tetrachloroethane	06	79-34-5	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.40	0.40	1	ug/L	KCS
1,1,2-Trichloroethane	06	79-00-5	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.50	1.00	1	ug/L	KCS
1,1-Dichloroethane	06	75-34-3	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.40	1.00	1	ug/L	KCS
1,1-Dichloroethylene	06	75-35-4	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.30	1.00	1	ug/L	KCS
1,1-Dichloropropene	06	563-58-6	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.20	1.00	1	ug/L	KCS
1,2,3-Trichlorobenzene	06	87-61-6	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.30	1.00	1	ug/L	KCS
1,2,3-Trichloropropane	06	96-18-4	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.40	1.00	1	ug/L	KCS
1,2,4-Trichlorobenzene	06	120-82-1	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.30	1.00	1	ug/L	KCS
1,2,4-Trimethylbenzene	06	95-63-6	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.20	1.00	1	ug/L	KCS
1,2-Dibromo-3-chloropropane (DBCP)	06	96-12-8	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.80	4.00	1	ug/L	KCS
1,2-Dibromoethane (EDB)	06	106-93-4	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.40	1.00	1	ug/L	KCS
1,2-Dichlorobenzene	06	95-50-1	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.20	1.00	1	ug/L	KCS
1,2-Dichloroethane	06	107-06-2	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.90	1.00	1	ug/L	KCS
1,2-Dichloropropane	06	78-87-5	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.60	1.00	1	ug/L	KCS
1,3,5-Trimethylbenzene	06	108-67-8	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.20	1.00	1	ug/L	KCS
1,3-Dichlorobenzene	06	541-73-1	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.20	1.00	1	ug/L	KCS
1,3-Dichloropropane	06	142-28-9	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.20	1.00	1	ug/L	KCS
1,4-Dichlorobenzene	06	106-46-7	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.40	1.00	1	ug/L	KCS
2,2-Dichloropropane	06	594-20-7	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.30	2.00	1	ug/L	KCS
2-Butanone (MEK)	06	78-93-3	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		5.00	10.0	1	ug/L	KCS
2-Chlorotoluene	06	95-49-8	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.20	1.00	1	ug/L	KCS
2-Hexanone (MBK)	06	591-78-6	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		5.00	5.00	1	ug/L	KCS

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Client Sample ID: MW-24

Laboratory Sample ID: 16L0048-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Chlorotoluene	06	106-43-4	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.20	1.00	1	ug/L	KCS
4-Isopropyltoluene	06	99-87-6	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.20	1.00	1	ug/L	KCS
4-Methyl-2-pentanone (MIBK)	06	108-10-1	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		5.00	5.00	1	ug/L	KCS
Acetone	06	67-64-1	SW8260B	12/02/2016 12:57	12/02/2016 12:57	7.38	J	7.00	10.0	1	ug/L	KCS
Benzene	06	71-43-2	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.30	1.00	1	ug/L	KCS
Bromobenzene	06	108-86-1	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.20	1.00	1	ug/L	KCS
Bromochloromethane	06	74-97-5	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.40	1.00	1	ug/L	KCS
Bromodichloromethane	06	75-27-4	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.30	0.50	1	ug/L	KCS
Bromoform	06	75-25-2	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.50	1.00	1	ug/L	KCS
Bromomethane	06	74-83-9	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.30	1.00	1	ug/L	KCS
Carbon disulfide	06	75-15-0	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		1.00	10.0	1	ug/L	KCS
Carbon tetrachloride	06	56-23-5	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.40	1.00	1	ug/L	KCS
Chlorobenzene	06	108-90-7	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.40	1.00	1	ug/L	KCS
Chloroethane	06	75-00-3	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.40	1.00	1	ug/L	KCS
Chloroform	06	67-66-3	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.40	0.50	1	ug/L	KCS
Chloromethane	06	74-87-3	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.50	1.00	1	ug/L	KCS
cis-1,2-Dichloroethylene	06	156-59-2	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.40	1.00	1	ug/L	KCS
cis-1,3-Dichloropropene	06	10061-01-5	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.20	1.00	1	ug/L	KCS
Dibromochloromethane	06	124-48-1	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.70	1.00	1	ug/L	KCS
Dibromomethane	06	74-95-3	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.30	1.00	1	ug/L	KCS
Dichlorodifluoromethane	06	75-71-8	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		1.00	1.00	1	ug/L	KCS
Di-isopropyl ether (DIPE)	06	108-20-3	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		5.00	5.00	1	ug/L	KCS
Ethylbenzene	06	100-41-4	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.20	1.00	1	ug/L	KCS
Hexachlorobutadiene	06	87-68-3	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		1.00	1.00	1	ug/L	KCS

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW-24

Laboratory Sample ID: 16L0048-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	06	74-88-4	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		1.70	10.0	1	ug/L	KCS
Isopropylbenzene	06	98-82-8	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.20	1.00	1	ug/L	KCS
m+p-Xylenes	06	179601-23-1	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.50	2.00	1	ug/L	KCS
Methylene chloride	06	75-09-2	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		1.00	4.00	1	ug/L	KCS
Methyl-t-butyl ether (MTBE)	06	1634-04-4	SW8260B	12/02/2016 12:57	12/02/2016 12:57	1.36		0.40	1.00	1	ug/L	KCS
Naphthalene	06	91-20-3	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.50	1.00	1	ug/L	KCS
n-Butylbenzene	06	104-51-8	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.10	1.00	1	ug/L	KCS
n-Propylbenzene	06	103-65-1	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.10	1.00	1	ug/L	KCS
o-Xylene	06	95-47-6	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.50	1.00	1	ug/L	KCS
sec-Butylbenzene	06	135-98-8	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.10	1.00	1	ug/L	KCS
Styrene	06	100-42-5	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.20	1.00	1	ug/L	KCS
tert-Butylbenzene	06	98-06-6	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.10	1.00	1	ug/L	KCS
Tetrachloroethylene (PCE)	06	127-18-4	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.40	1.00	1	ug/L	KCS
Toluene	06	108-88-3	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.40	1.00	1	ug/L	KCS
trans-1,2-Dichloroethylene	06	156-60-5	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.40	1.00	1	ug/L	KCS
trans-1,3-Dichloropropene	06	10061-02-6	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.50	1.00	1	ug/L	KCS
Trichloroethylene	06	79-01-6	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.30	1.00	1	ug/L	KCS
Trichlorofluoromethane	06	75-69-4	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.20	1.00	1	ug/L	KCS
Vinyl acetate	06	108-05-4	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		2.20	10.0	1	ug/L	KCS
Vinyl chloride	06	75-01-4	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		0.30	0.50	1	ug/L	KCS
Xylenes, Total	06	1330-20-7	SW8260B	12/02/2016 12:57	12/02/2016 12:57	BLOD		1.00	3.00	1	ug/L	KCS
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	06	95.4 %	70-120	12/02/2016 12:57	12/02/2016 12:57							
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	06	99.3 %	75-120	12/02/2016 12:57	12/02/2016 12:57							
<i>Surr: Dibromofluoromethane (Surr)</i>	06	97.4 %	80-119	12/02/2016 12:57	12/02/2016 12:57							

Certificate of Analysis

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Client Sample ID: MW-24

Laboratory Sample ID: 16L0048-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
<i>Surr: Toluene-d8 (Surr)</i>	06	100 %	85-120	12/02/2016 12:57	12/02/2016 12:57							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
2,3,7,8-TCDD (SIM)	06	1746-01-6	EPA625	12/05/2016 09:16	12/08/2016 16:10	Not Detected				1	-	EWS
1,2,4,5-Tetrachlorobenzene	06	95-94-3	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	26.3	2	ug/L	EWS
1,2,4-Trichlorobenzene	06	120-82-1	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	26.3	2	ug/L	EWS
1,2-Dichlorobenzene	06	95-50-1	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
1,2-Diphenylhydrazine	06	122-66-7	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		26.3	26.3	2	ug/L	EWS
1,3-Dichlorobenzene	06	541-73-1	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
1,3-Dinitrobenzene	06	99-65-0	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		6.58	6.58	2	ug/L	EWS
1,4-Dichlorobenzene	06	106-46-7	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
1-Naphthylamine	06	134-32-7	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
2,3,4,6-Tetrachlorophenol	06	58-90-2	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
2,4,5-Trichlorophenol	06	95-95-4	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
2,4,6-Trichlorophenol	06	88-06-2	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
2,4-Dichlorophenol	06	120-83-2	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
2,4-Dimethylphenol	06	105-67-9	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		1.32	1.32	2	ug/L	EWS
2,4-Dinitrophenol	06	51-28-5	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD	C	1.32	132	2	ug/L	EWS
2,4-Dinitrotoluene	06	121-14-2	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
2,6-Dichlorophenol	06	87-65-0	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
2,6-Dinitrotoluene	06	606-20-2	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
2-Chloronaphthalene	06	91-58-7	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
2-Chlorophenol	06	95-57-8	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
2-Methylnaphthalene	06	91-57-6	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	26.3	2	ug/L	EWS
2-Naphthylamine	06	91-59-8	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	26.3	2	ug/L	EWS
2-Nitroaniline	06	88-74-4	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	52.6	2	ug/L	EWS
2-Nitrophenol	06	88-75-5	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS

Certificate of Analysis

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Client Sample ID: MW-24

Laboratory Sample ID: 16L0048-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
3,3'-Dichlorobenzidine	06	91-94-1	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		10.5	26.3	2	ug/L	EWS
3-Methylcholanthrene	06	56-49-5	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
3-Nitroaniline	06	99-09-2	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD	C	5.26	52.6	2	ug/L	EWS
4,6-Dinitro-2-methylphenol	06	534-52-1	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD	C	2.63	132	2	ug/L	EWS
4-Aminobiphenyl	06	92-67-1	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	26.3	2	ug/L	EWS
4-Bromophenyl phenyl ether	06	101-55-3	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
4-Chloroaniline	06	106-47-8	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	26.3	2	ug/L	EWS
4-Chlorophenyl phenyl ether	06	7005-72-3	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
4-Nitroaniline	06	100-01-6	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	52.6	2	ug/L	EWS
4-Nitrophenol	06	100-02-7	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	132	2	ug/L	EWS
7,12-Dimethylbenz (a) anthracene	06	57-97-6	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	26.3	2	ug/L	EWS
Acenaphthene	06	83-32-9	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Acenaphthylene	06	208-96-8	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Acetophenone	06	98-86-2	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	52.6	2	ug/L	EWS
Aniline	06	62-53-3	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD	C	5.26	132	2	ug/L	EWS
Anthracene	06	120-12-7	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Benzdine	06	92-87-5	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		132	132	2	ug/L	EWS
Benzo (a) anthracene	06	56-55-3	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		0.13	0.13	2	ug/L	EWS
Benzo (a) pyrene	06	50-32-8	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Benzo (b) fluoranthene	06	205-99-2	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Benzo (g,h,i) perylene	06	191-24-2	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Benzo (k) fluoranthene	06	207-08-9	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Benzoic acid	06	65-85-0	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	132	2	ug/L	EWS
Benzyl alcohol	06	100-51-6	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	52.6	2	ug/L	EWS

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Client Sample ID: MW-24

Laboratory Sample ID: 16L0048-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
bis (2-Chloroethoxy) methane	06	111-91-1	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
bis (2-Chloroethyl) ether	06	111-44-4	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
2,2'-Oxybis (1-chloropropane)	06	108-60-1	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
bis (2-Ethylhexyl) phthalate	06	117-81-7	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Butyl benzyl phthalate	06	85-68-7	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Chrysene	06	218-01-9	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Dibenz (a,h) anthracene	06	53-70-3	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Dibenz (a,j) acridine	06	224-42-0	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		7.89	26.3	2	ug/L	EWS
Dibenzofuran	06	132-64-9	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	13.2	2	ug/L	EWS
Diethyl phthalate	06	84-66-2	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Dimethyl phthalate	06	131-11-3	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Di-n-butyl phthalate	06	84-74-2	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	26.3	2	ug/L	EWS
Di-n-octyl phthalate	06	117-84-0	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Diphenylamine	06	122-39-4	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	26.3	2	ug/L	EWS
Ethyl methanesulfonate	06	62-50-0	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	52.6	2	ug/L	EWS
Fluoranthene	06	206-44-0	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Fluorene	06	86-73-7	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Hexachlorobenzene	06	118-74-1	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	2.63	2	ug/L	EWS
Hexachlorobutadiene	06	87-68-3	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Hexachlorocyclopentadiene	06	77-47-4	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD	C	2.63	26.3	2	ug/L	EWS
Hexachloroethane	06	67-72-1	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Indeno (1,2,3-cd) pyrene	06	193-39-5	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Isophorone	06	78-59-1	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
m+p-Cresols	06	84989-04-8	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS

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Laboratory Sample ID: 16L0048-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Methyl methanesulfonate	06	66-27-3	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Naphthalene	06	91-20-3	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	13.2	2	ug/L	EWS
Nitrobenzene	06	98-95-3	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
n-Nitrosodimethylamine	06	62-75-9	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	26.3	2	ug/L	EWS
n-Nitrosodi-n-butylamine	06	924-16-3	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	26.3	2	ug/L	EWS
n-Nitrosodi-n-propylamine	06	621-64-7	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	26.3	2	ug/L	EWS
n-Nitrosodiphenylamine	06	86-30-6	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
n-Nitrosopiperidine	06	100-75-4	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	26.3	2	ug/L	EWS
o+m+p-Cresols	06	1319-77-3	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		7.89	26.3	2	ug/L	EWS
o-Cresol	06	95-48-7	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
p-(Dimethylamino) azobenzene	06	60-11-7	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD	C	2.63	6.58	2	ug/L	EWS
p-Chloro-m-cresol	06	59-50-7	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Pentachloronitrobenzene (quintozene)	06	82-68-8	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Pentachlorophenol	06	87-86-5	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	52.6	2	ug/L	EWS
Phenacetin	06	62-44-2	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Phenanthrene	06	85-01-8	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Phenol	06	108-95-2	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Pronamide	06	23950-58-5	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		5.26	26.3	2	ug/L	EWS
Pyrene	06	129-00-0	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Pyridine	06	110-86-1	SW8270D	12/05/2016 09:16	12/07/2016 02:00	BLOD		2.63	26.3	2	ug/L	EWS
Surr: 2,4,6-Tribromophenol (Surr)	06	8.91 %	40-125	12/05/2016 09:16	12/07/2016 02:00							DS
Surr: 2-Fluorobiphenyl (Surr)	06	4.56 %	23-87	12/05/2016 09:16	12/07/2016 02:00							DS
Surr: 2-Fluorophenol (Surr)	06	13.0 %	14-52	12/05/2016 09:16	12/07/2016 02:00							DS
Surr: Nitrobenzene-d5 (Surr)	06	8.69 %	40-110	12/05/2016 09:16	12/07/2016 02:00							DS
Surr: Phenol-d5 (Surr)	06	8.42 %	5-33	12/05/2016 09:16	12/07/2016 02:00							DS

Certificate of Analysis

Client Name: Timmons Group
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Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW-24

Laboratory Sample ID: 16L0048-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatle Organic Compounds by GCMS												
Surr: <i>p-Terphenyl-d14 (Surr)</i>	06	6.79 %	27-133	12/05/2016 09:16	12/07/2016 02:00							DS

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Laboratory Sample ID: 16L0048-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
PCB as Aroclor 1016	06	12674-11-2	SW8082A	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.033	0.253	1	ug/L	SKS
PCB as Aroclor 1221	06	11104-28-2	SW8082A	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.253	0.253	1	ug/L	SKS
PCB as Aroclor 1232	06	11141-16-5	SW8082A	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.019	0.253	1	ug/L	SKS
PCB as Aroclor 1242	06	53469-21-9	SW8082A	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.052	0.253	1	ug/L	SKS
PCB as Aroclor 1248	06	12672-29-6	SW8082A	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.061	0.253	1	ug/L	SKS
PCB as Aroclor 1254	06	11097-69-1	SW8082A	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.044	0.253	1	ug/L	SKS
PCB as Aroclor 1260	06	11096-82-5	SW8082A	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.043	0.253	1	ug/L	SKS
Surr: DCB	06	50.0 %	30-105	12/05/2016 13:48	12/07/2016 21:14							
Surr: TCMX	06	15.0 %	30-105	12/05/2016 13:48	12/07/2016 21:14							S
4,4'-DDD	06	72-54-8	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.006	0.063	1	ug/L	SKS
4,4'-DDE	06	72-55-9	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.006	0.063	1	ug/L	SKS
4,4'-DDT	06	50-29-3	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.006	0.063	1	ug/L	SKS
Aldrin	06	309-00-2	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.006	0.063	1	ug/L	SKS
alpha-BHC	06	319-84-6	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.006	0.063	1	ug/L	SKS
beta-BHC	06	319-85-7	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.006	0.063	1	ug/L	SKS
Chlordane	06	57-74-9	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.253	0.253	1	ug/L	SKS
delta-BHC	06	319-86-8	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.003	0.063	1	ug/L	SKS
Dieldrin	06	60-57-1	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.004	0.063	1	ug/L	SKS
Endosulfan I	06	959-98-8	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.003	0.063	1	ug/L	SKS
Endosulfan II	06	33213-65-9	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.003	0.063	1	ug/L	SKS
Endosulfan sulfate	06	1031-07-8	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.003	0.063	1	ug/L	SKS
Endrin	06	72-20-8	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.003	0.063	1	ug/L	SKS
Endrin aldehyde	06	7421-93-4	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.003	0.063	1	ug/L	SKS
gamma-BHC (Lindane)	06	58-89-9	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.004	0.063	1	ug/L	SKS

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Client Sample ID: MW-24

Laboratory Sample ID: 16L0048-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
Heptachlor	06	76-44-8	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.004	0.063	1	ug/L	SKS
Heptachlor epoxide	06	1024-57-3	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.003	0.063	1	ug/L	SKS
Methoxychlor	06	72-43-5	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.005	0.063	1	ug/L	SKS
Toxaphene	06	8001-35-2	SW8081B	12/05/2016 13:48	12/07/2016 21:14	BLOD		0.253	1.27	1	ug/L	SKS
Surr: TCMX	06	15.0 %	18-112	12/05/2016 13:48	12/07/2016 21:14							S
Surr: DCB	06	50.0 %	27-131	12/05/2016 13:48	12/07/2016 21:14							

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Laboratory Sample ID: 16L0048-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Wet Chemistry Analysis												
Cyanide	06	57-12-5	SW9012B	12/06/2016 17:21	12/06/2016 17:21	0.03	CI	0.01	0.01	1	mg/L	BBP

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Client Sample ID: MW-26

Laboratory Sample ID: 16L0048-07

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Hydrocarbons by GC												
TPH-Semi-Volatiles (DRO)	07	NA	SW8015C	12/06/2016 09:45	12/08/2016 12:09	15.3		1.25	1.25	4	mg/L	EWS
<i>Surr: Pentacosane (Surr)</i>	<i>07</i>	<i>100 %</i>	<i>40-160</i>	<i>12/06/2016 09:45</i>	<i>12/08/2016 12:09</i>							

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Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW-26

Laboratory Sample ID: 16L0048-07

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Petroleum Hydrocarbons by GC												
Petroleum Identification	07	NA	ASTM	12/06/2016 09:45	12/08/2016 12:09	y petroleum pa		0.0	0.0	1	-	EWS

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW-29

Laboratory Sample ID: 16L0048-08

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 200 Series Methods												
Silver	08	7440-22-4	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 12:05	BLOD		0.0020	0.0100	1	mg/L	CWO
Beryllium	08RE1	7440-41-7	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 14:30	BLOD		0.0100	0.0200	5	mg/L	CWO
Cadmium	08	7440-43-9	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 12:05	BLOD		0.0020	0.0040	1	mg/L	CWO
Chromium	08	7440-47-3	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 12:05	0.0167		0.0040	0.0100	1	mg/L	CWO
Copper	08	7440-50-8	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 12:05	0.0234		0.0030	0.0100	1	mg/L	CWO
Mercury	08	7439-97-6	EPA245.1 R3.0	12/06/2016 13:59	12/07/2016 12:50	0.0007		0.0002	0.0002	1	mg/L	RCV
Nickel	08	7440-02-0	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 12:05	0.0070	J	0.0020	0.0100	1	mg/L	CWO
Lead	08	7439-92-1	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 12:05	0.150		0.0060	0.0100	1	mg/L	CWO
Zinc	08	7440-66-6	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 12:05	0.0955		0.0100	0.0100	1	mg/L	CWO

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Arsenic	08	7440-38-2	SW7010	12/05/2016 15:00	12/06/2016 11:26	0.0088		0.0030	0.0050	1	mg/L	MWL
Antimony	08	7440-36-0	SW7010	12/05/2016 15:00	12/07/2016 01:48	BLOD		0.0030	0.0050	1	mg/L	MWL
Selenium	08	7782-49-2	SW7010	12/05/2016 15:00	12/07/2016 14:35	BLOD		0.0020	0.0030	1	mg/L	MWL
Thallium	08	7440-28-0	SW7010	12/05/2016 15:00	12/06/2016 12:05	BLOD		0.0020	0.0020	1	mg/L	MWL

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	08	630-20-6	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.10	0.40	1	ug/L	KCS
1,1,1-Trichloroethane	08	71-55-6	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.70	1.00	1	ug/L	KCS
1,1,2-Tetrachloroethane	08	79-34-5	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.40	0.40	1	ug/L	KCS
1,1,2-Trichloroethane	08	79-00-5	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.50	1.00	1	ug/L	KCS
1,1-Dichloroethane	08	75-34-3	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.40	1.00	1	ug/L	KCS
1,1-Dichloroethylene	08	75-35-4	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.30	1.00	1	ug/L	KCS
1,1-Dichloropropene	08	563-58-6	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.20	1.00	1	ug/L	KCS
1,2,3-Trichlorobenzene	08	87-61-6	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.30	1.00	1	ug/L	KCS
1,2,3-Trichloropropane	08	96-18-4	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.40	1.00	1	ug/L	KCS
1,2,4-Trichlorobenzene	08	120-82-1	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.30	1.00	1	ug/L	KCS
1,2,4-Trimethylbenzene	08	95-63-6	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.20	1.00	1	ug/L	KCS
1,2-Dibromo-3-chloropropane (DBCP)	08	96-12-8	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.80	4.00	1	ug/L	KCS
1,2-Dibromoethane (EDB)	08	106-93-4	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.40	1.00	1	ug/L	KCS
1,2-Dichlorobenzene	08	95-50-1	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.20	1.00	1	ug/L	KCS
1,2-Dichloroethane	08	107-06-2	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.90	1.00	1	ug/L	KCS
1,2-Dichloropropane	08	78-87-5	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.60	1.00	1	ug/L	KCS
1,3,5-Trimethylbenzene	08	108-67-8	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.20	1.00	1	ug/L	KCS
1,3-Dichlorobenzene	08	541-73-1	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.20	1.00	1	ug/L	KCS
1,3-Dichloropropane	08	142-28-9	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.20	1.00	1	ug/L	KCS
1,4-Dichlorobenzene	08	106-46-7	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.40	1.00	1	ug/L	KCS
2,2-Dichloropropane	08	594-20-7	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.30	2.00	1	ug/L	KCS
2-Butanone (MEK)	08	78-93-3	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		5.00	10.0	1	ug/L	KCS
2-Chlorotoluene	08	95-49-8	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.20	1.00	1	ug/L	KCS
2-Hexanone (MBK)	08	591-78-6	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		5.00	5.00	1	ug/L	KCS

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Laboratory Sample ID: 16L0048-08

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Chlorotoluene	08	106-43-4	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.20	1.00	1	ug/L	KCS
4-Isopropyltoluene	08	99-87-6	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.20	1.00	1	ug/L	KCS
4-Methyl-2-pentanone (MIBK)	08	108-10-1	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		5.00	5.00	1	ug/L	KCS
Acetone	08	67-64-1	SW8260B	12/02/2016 12:33	12/02/2016 12:33	12.1		7.00	10.0	1	ug/L	KCS
Benzene	08	71-43-2	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.30	1.00	1	ug/L	KCS
Bromobenzene	08	108-86-1	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.20	1.00	1	ug/L	KCS
Bromochloromethane	08	74-97-5	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.40	1.00	1	ug/L	KCS
Bromodichloromethane	08	75-27-4	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.30	0.50	1	ug/L	KCS
Bromoform	08	75-25-2	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.50	1.00	1	ug/L	KCS
Bromomethane	08	74-83-9	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.30	1.00	1	ug/L	KCS
Carbon disulfide	08	75-15-0	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		1.00	10.0	1	ug/L	KCS
Carbon tetrachloride	08	56-23-5	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.40	1.00	1	ug/L	KCS
Chlorobenzene	08	108-90-7	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.40	1.00	1	ug/L	KCS
Chloroethane	08	75-00-3	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.40	1.00	1	ug/L	KCS
Chloroform	08	67-66-3	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.40	0.50	1	ug/L	KCS
Chloromethane	08	74-87-3	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.50	1.00	1	ug/L	KCS
cis-1,2-Dichloroethylene	08	156-59-2	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.40	1.00	1	ug/L	KCS
cis-1,3-Dichloropropene	08	10061-01-5	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.20	1.00	1	ug/L	KCS
Dibromochloromethane	08	124-48-1	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.70	1.00	1	ug/L	KCS
Dibromomethane	08	74-95-3	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.30	1.00	1	ug/L	KCS
Dichlorodifluoromethane	08	75-71-8	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		1.00	1.00	1	ug/L	KCS
Di-isopropyl ether (DIPE)	08	108-20-3	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		5.00	5.00	1	ug/L	KCS
Ethylbenzene	08	100-41-4	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.20	1.00	1	ug/L	KCS
Hexachlorobutadiene	08	87-68-3	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		1.00	1.00	1	ug/L	KCS

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW-29

Laboratory Sample ID: 16L0048-08

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	08	74-88-4	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		1.70	10.0	1	ug/L	KCS
Isopropylbenzene	08	98-82-8	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.20	1.00	1	ug/L	KCS
m+p-Xylenes	08	179601-23-1	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.50	2.00	1	ug/L	KCS
Methylene chloride	08	75-09-2	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		1.00	4.00	1	ug/L	KCS
Methyl-t-butyl ether (MTBE)	08	1634-04-4	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.40	1.00	1	ug/L	KCS
Naphthalene	08	91-20-3	SW8260B	12/02/2016 12:33	12/02/2016 12:33	1.12		0.50	1.00	1	ug/L	KCS
n-Butylbenzene	08	104-51-8	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.10	1.00	1	ug/L	KCS
n-Propylbenzene	08	103-65-1	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.10	1.00	1	ug/L	KCS
o-Xylene	08	95-47-6	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.50	1.00	1	ug/L	KCS
sec-Butylbenzene	08	135-98-8	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.10	1.00	1	ug/L	KCS
Styrene	08	100-42-5	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.20	1.00	1	ug/L	KCS
tert-Butylbenzene	08	98-06-6	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.10	1.00	1	ug/L	KCS
Tetrachloroethylene (PCE)	08	127-18-4	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.40	1.00	1	ug/L	KCS
Toluene	08	108-88-3	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.40	1.00	1	ug/L	KCS
trans-1,2-Dichloroethylene	08	156-60-5	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.40	1.00	1	ug/L	KCS
trans-1,3-Dichloropropene	08	10061-02-6	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.50	1.00	1	ug/L	KCS
Trichloroethylene	08	79-01-6	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.30	1.00	1	ug/L	KCS
Trichlorofluoromethane	08	75-69-4	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.20	1.00	1	ug/L	KCS
Vinyl acetate	08	108-05-4	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		2.20	10.0	1	ug/L	KCS
Vinyl chloride	08	75-01-4	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		0.30	0.50	1	ug/L	KCS
Xylenes, Total	08	1330-20-7	SW8260B	12/02/2016 12:33	12/02/2016 12:33	BLOD		1.00	3.00	1	ug/L	KCS
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	08	96.2 %	70-120	12/02/2016 12:33	12/02/2016 12:33							
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	08	99.6 %	75-120	12/02/2016 12:33	12/02/2016 12:33							
<i>Surr: Dibromofluoromethane (Surr)</i>	08	95.7 %	80-119	12/02/2016 12:33	12/02/2016 12:33							



Certificate of Analysis

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Client Sample ID: MW-29

Laboratory Sample ID: 16L0048-08

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
<i>Surr: Toluene-d8 (Surr)</i>	08	101 %	85-120	12/02/2016 12:33	12/02/2016 12:33							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
2,3,7,8-TCDD (SIM)	08	1746-01-6	EPA625	12/05/2016 09:16	12/08/2016 16:10	Not Detected				1	-	EWS
1,2,4,5-Tetrachlorobenzene	08	95-94-3	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	22.5	2	ug/L	EWS
1,2,4-Trichlorobenzene	08	120-82-1	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	22.5	2	ug/L	EWS
1,2-Dichlorobenzene	08	95-50-1	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
1,2-Diphenylhydrazine	08	122-66-7	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		22.5	22.5	2	ug/L	EWS
1,3-Dichlorobenzene	08	541-73-1	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
1,3-Dinitrobenzene	08	99-65-0	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		5.62	5.62	2	ug/L	EWS
1,4-Dichlorobenzene	08	106-46-7	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
1-Naphthylamine	08	134-32-7	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
2,3,4,6-Tetrachlorophenol	08	58-90-2	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
2,4,5-Trichlorophenol	08	95-95-4	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
2,4,6-Trichlorophenol	08	88-06-2	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
2,4-Dichlorophenol	08	120-83-2	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
2,4-Dimethylphenol	08	105-67-9	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		1.12	1.12	2	ug/L	EWS
2,4-Dinitrophenol	08	51-28-5	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		1.12	112	2	ug/L	EWS
2,4-Dinitrotoluene	08	121-14-2	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
2,6-Dichlorophenol	08	87-65-0	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
2,6-Dinitrotoluene	08	606-20-2	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
2-Chloronaphthalene	08	91-58-7	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
2-Chlorophenol	08	95-57-8	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
2-Methylnaphthalene	08	91-57-6	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	22.5	2	ug/L	EWS
2-Naphthylamine	08	91-59-8	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	22.5	2	ug/L	EWS
2-Nitroaniline	08	88-74-4	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	44.9	2	ug/L	EWS
2-Nitrophenol	08	88-75-5	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS

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Laboratory Sample ID: 16L0048-08

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
3,3'-Dichlorobenzidine	08	91-94-1	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		8.99	22.5	2	ug/L	EWS
3-Methylcholanthrene	08	56-49-5	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
3-Nitroaniline	08	99-09-2	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	44.9	2	ug/L	EWS
4,6-Dinitro-2-methylphenol	08	534-52-1	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	112	2	ug/L	EWS
4-Aminobiphenyl	08	92-67-1	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	22.5	2	ug/L	EWS
4-Bromophenyl phenyl ether	08	101-55-3	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
4-Chloroaniline	08	106-47-8	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	22.5	2	ug/L	EWS
4-Chlorophenyl phenyl ether	08	7005-72-3	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
4-Nitroaniline	08	100-01-6	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	44.9	2	ug/L	EWS
4-Nitrophenol	08	100-02-7	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	112	2	ug/L	EWS
7,12-Dimethylbenz (a) anthracene	08	57-97-6	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	22.5	2	ug/L	EWS
Acenaphthene	08	83-32-9	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Acenaphthylene	08	208-96-8	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Acetophenone	08	98-86-2	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	44.9	2	ug/L	EWS
Aniline	08	62-53-3	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	112	2	ug/L	EWS
Anthracene	08	120-12-7	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Benzdine	08	92-87-5	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		112	112	2	ug/L	EWS
Benzo (a) anthracene	08	56-55-3	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		0.11	0.11	2	ug/L	EWS
Benzo (a) pyrene	08	50-32-8	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Benzo (b) fluoranthene	08	205-99-2	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Benzo (g,h,i) perylene	08	191-24-2	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Benzo (k) fluoranthene	08	207-08-9	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Benzoic acid	08	65-85-0	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	112	2	ug/L	EWS
Benzyl alcohol	08	100-51-6	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	44.9	2	ug/L	EWS

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Laboratory Sample ID: 16L0048-08

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
bis (2-Chloroethoxy) methane	08	111-91-1	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
bis (2-Chloroethyl) ether	08	111-44-4	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
2,2'-Oxybis (1-chloropropane)	08	108-60-1	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
bis (2-Ethylhexyl) phthalate	08	117-81-7	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Butyl benzyl phthalate	08	85-68-7	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Chrysene	08	218-01-9	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Dibenz (a,h) anthracene	08	53-70-3	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Dibenz (a,j) acridine	08	224-42-0	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		6.74	22.5	2	ug/L	EWS
Dibenzofuran	08	132-64-9	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	11.2	2	ug/L	EWS
Diethyl phthalate	08	84-66-2	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Dimethyl phthalate	08	131-11-3	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Di-n-butyl phthalate	08	84-74-2	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	22.5	2	ug/L	EWS
Di-n-octyl phthalate	08	117-84-0	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Diphenylamine	08	122-39-4	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	22.5	2	ug/L	EWS
Ethyl methanesulfonate	08	62-50-0	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	44.9	2	ug/L	EWS
Fluoranthene	08	206-44-0	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Fluorene	08	86-73-7	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Hexachlorobenzene	08	118-74-1	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	2.25	2	ug/L	EWS
Hexachlorobutadiene	08	87-68-3	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Hexachlorocyclopentadiene	08	77-47-4	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Hexachloroethane	08	67-72-1	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Indeno (1,2,3-cd) pyrene	08	193-39-5	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Isophorone	08	78-59-1	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
m+p-Cresols	08	84989-04-8	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Methyl methanesulfonate	08	66-27-3	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Naphthalene	08	91-20-3	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	11.2	2	ug/L	EWS
Nitrobenzene	08	98-95-3	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
n-Nitrosodimethylamine	08	62-75-9	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	22.5	2	ug/L	EWS
n-Nitrosodi-n-butylamine	08	924-16-3	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	22.5	2	ug/L	EWS
n-Nitrosodi-n-propylamine	08	621-64-7	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	22.5	2	ug/L	EWS
n-Nitrosodiphenylamine	08	86-30-6	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
n-Nitrosopiperidine	08	100-75-4	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	22.5	2	ug/L	EWS
o+m+p-Cresols	08	1319-77-3	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		6.74	22.5	2	ug/L	EWS
o-Cresol	08	95-48-7	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
p-(Dimethylamino) azobenzene	08	60-11-7	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	5.62	2	ug/L	EWS
p-Chloro-m-cresol	08	59-50-7	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Pentachloronitrobenzene (quintozene)	08	82-68-8	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Pentachlorophenol	08	87-86-5	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	44.9	2	ug/L	EWS
Phenacetin	08	62-44-2	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Phenanthrene	08	85-01-8	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Phenol	08	108-95-2	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Pronamide	08	23950-58-5	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		4.49	22.5	2	ug/L	EWS
Pyrene	08	129-00-0	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Pyridine	08	110-86-1	SW8270D	12/05/2016 09:16	12/07/2016 02:36	BLOD		2.25	22.5	2	ug/L	EWS
Surr: 2,4,6-Tribromophenol (Surr)	08	23.3 %	40-125	12/05/2016 09:16	12/07/2016 02:36							DS
Surr: 2-Fluorobiphenyl (Surr)	08	14.5 %	23-87	12/05/2016 09:16	12/07/2016 02:36							DS
Surr: 2-Fluorophenol (Surr)	08	11.4 %	14-52	12/05/2016 09:16	12/07/2016 02:36							DS
Surr: Nitrobenzene-d5 (Surr)	08	15.7 %	40-110	12/05/2016 09:16	12/07/2016 02:36							DS
Surr: Phenol-d5 (Surr)	08	7.28 %	5-33	12/05/2016 09:16	12/07/2016 02:36							DS

Certificate of Analysis

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Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW-29

Laboratory Sample ID: 16L0048-08

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatle Organic Compounds by GCMS												
Surr: p-Terphenyl-d14 (Surr)	08	26.2 %	27-133	12/05/2016 09:16	12/07/2016 02:36							DS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
PCB as Aroclor 1016	08	12674-11-2	SW8082A	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.029	0.225	1	ug/L	SKS
PCB as Aroclor 1221	08	11104-28-2	SW8082A	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.225	0.225	1	ug/L	SKS
PCB as Aroclor 1232	08	11141-16-5	SW8082A	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.017	0.225	1	ug/L	SKS
PCB as Aroclor 1242	08	53469-21-9	SW8082A	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.046	0.225	1	ug/L	SKS
PCB as Aroclor 1248	08	12672-29-6	SW8082A	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.054	0.225	1	ug/L	SKS
PCB as Aroclor 1254	08	11097-69-1	SW8082A	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.039	0.225	1	ug/L	SKS
PCB as Aroclor 1260	08	11096-82-5	SW8082A	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.038	0.225	1	ug/L	SKS
<i>Surr: DCB</i>	08	50.0 %	30-105	12/05/2016 13:48	12/07/2016 22:11							
<i>Surr: TCMX</i>	08	55.0 %	30-105	12/05/2016 13:48	12/07/2016 22:11							
4,4'-DDD	08	72-54-8	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.006	0.056	1	ug/L	SKS
4,4'-DDE	08	72-55-9	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.006	0.056	1	ug/L	SKS
4,4'-DDT	08	50-29-3	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.006	0.056	1	ug/L	SKS
Aldrin	08	309-00-2	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.006	0.056	1	ug/L	SKS
alpha-BHC	08	319-84-6	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.006	0.056	1	ug/L	SKS
beta-BHC	08	319-85-7	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.006	0.056	1	ug/L	SKS
Chlordane	08	57-74-9	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.225	0.225	1	ug/L	SKS
delta-BHC	08	319-86-8	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.002	0.056	1	ug/L	SKS
Dieldrin	08	60-57-1	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.003	0.056	1	ug/L	SKS
Endosulfan I	08	959-98-8	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.002	0.056	1	ug/L	SKS
Endosulfan II	08	33213-65-9	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.002	0.056	1	ug/L	SKS
Endosulfan sulfate	08	1031-07-8	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.002	0.056	1	ug/L	SKS
Endrin	08	72-20-8	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.002	0.056	1	ug/L	SKS
Endrin aldehyde	08	7421-93-4	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.002	0.056	1	ug/L	SKS
gamma-BHC (Lindane)	08	58-89-9	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.003	0.056	1	ug/L	SKS



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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
Heptachlor	08	76-44-8	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.003	0.056	1	ug/L	SKS
Heptachlor epoxide	08	1024-57-3	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.002	0.056	1	ug/L	SKS
Methoxychlor	08	72-43-5	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.004	0.056	1	ug/L	SKS
Toxaphene	08	8001-35-2	SW8081B	12/05/2016 13:48	12/07/2016 22:11	BLOD		0.225	1.12	1	ug/L	SKS
Surr: TCMX	08	45.0 %	18-112	12/05/2016 13:48	12/07/2016 22:11							
Surr: DCB	08	40.0 %	27-131	12/05/2016 13:48	12/07/2016 22:11							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Wet Chemistry Analysis												
Cyanide	08	57-12-5	SW9012B	12/06/2016 17:15	12/06/2016 17:15	0.06	CI	0.01	0.01	1	mg/L	BBP

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Client Sample ID: MW-30

Laboratory Sample ID: 16L0048-09

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 200 Series Methods												
Silver	09	7440-22-4	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 12:07	BLOD		0.0020	0.0100	1	mg/L	CWO
Beryllium	09RE1	7440-41-7	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 14:32	BLOD		0.0100	0.0200	5	mg/L	CWO
Cadmium	09	7440-43-9	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 12:07	0.0228		0.0020	0.0040	1	mg/L	CWO
Chromium	09	7440-47-3	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 12:07	0.0265		0.0040	0.0100	1	mg/L	CWO
Copper	09	7440-50-8	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 12:07	BLOD		0.0030	0.0100	1	mg/L	CWO
Mercury	09	7439-97-6	EPA245.1 R3.0	12/06/2016 13:59	12/07/2016 12:52	BLOD		0.0002	0.0002	1	mg/L	RCV
Nickel	09	7440-02-0	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 12:07	0.0065	J	0.0020	0.0100	1	mg/L	CWO
Lead	09	7439-92-1	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 12:07	0.0256		0.0060	0.0100	1	mg/L	CWO
Zinc	09	7440-66-6	EPA200.7 Rev 4.4	12/05/2016 15:00	12/06/2016 12:07	0.102		0.0100	0.0100	1	mg/L	CWO

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Laboratory Sample ID: 16L0048-09

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Arsenic	09	7440-38-2	SW7010	12/05/2016 15:00	12/06/2016 11:31	BLOD		0.0030	0.0050	1	mg/L	MWL
Antimony	09	7440-36-0	SW7010	12/05/2016 15:00	12/07/2016 01:54	BLOD		0.0030	0.0050	1	mg/L	MWL
Selenium	09	7782-49-2	SW7010	12/05/2016 15:00	12/07/2016 14:41	BLOD		0.0020	0.0030	1	mg/L	MWL
Thallium	09	7440-28-0	SW7010	12/05/2016 15:00	12/06/2016 12:11	BLOD		0.0020	0.0020	1	mg/L	MWL

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	09	630-20-6	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		0.50	2.00	5	ug/L	KCS
1,1,1-Trichloroethane	09	71-55-6	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		3.50	5.00	5	ug/L	KCS
1,1,2,2-Tetrachloroethane	09	79-34-5	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.00	2.00	5	ug/L	KCS
1,1,2-Trichloroethane	09	79-00-5	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.50	5.00	5	ug/L	KCS
1,1-Dichloroethane	09	75-34-3	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.00	5.00	5	ug/L	KCS
1,1-Dichloroethylene	09	75-35-4	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.50	5.00	5	ug/L	KCS
1,1-Dichloropropene	09	563-58-6	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.00	5.00	5	ug/L	KCS
1,2,3-Trichlorobenzene	09	87-61-6	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.50	5.00	5	ug/L	KCS
1,2,3-Trichloropropane	09	96-18-4	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.00	5.00	5	ug/L	KCS
1,2,4-Trichlorobenzene	09	120-82-1	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.50	5.00	5	ug/L	KCS
1,2,4-Trimethylbenzene	09	95-63-6	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.00	5.00	5	ug/L	KCS
1,2-Dibromo-3-chloropropane (DBCP)	09	96-12-8	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		4.00	20.0	5	ug/L	KCS
1,2-Dibromoethane (EDB)	09	106-93-4	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.00	5.00	5	ug/L	KCS
1,2-Dichlorobenzene	09	95-50-1	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.00	5.00	5	ug/L	KCS
1,2-Dichloroethane	09	107-06-2	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		4.50	5.00	5	ug/L	KCS
1,2-Dichloropropane	09	78-87-5	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		3.00	5.00	5	ug/L	KCS
1,3,5-Trimethylbenzene	09	108-67-8	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.00	5.00	5	ug/L	KCS
1,3-Dichlorobenzene	09	541-73-1	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.00	5.00	5	ug/L	KCS
1,3-Dichloropropane	09	142-28-9	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.00	5.00	5	ug/L	KCS
1,4-Dichlorobenzene	09	106-46-7	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.00	5.00	5	ug/L	KCS
2,2-Dichloropropane	09	594-20-7	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.50	10.0	5	ug/L	KCS
2-Butanone (MEK)	09	78-93-3	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		25.0	50.0	5	ug/L	KCS
2-Chlorotoluene	09	95-49-8	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.00	5.00	5	ug/L	KCS
2-Hexanone (MBK)	09	591-78-6	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		25.0	25.0	5	ug/L	KCS

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Laboratory Sample ID: 16L0048-09

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Chlorotoluene	09	106-43-4	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.00	5.00	5	ug/L	KCS
4-Isopropyltoluene	09	99-87-6	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.00	5.00	5	ug/L	KCS
4-Methyl-2-pentanone (MIBK)	09	108-10-1	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		25.0	25.0	5	ug/L	KCS
Acetone	09	67-64-1	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		35.0	50.0	5	ug/L	KCS
Benzene	09	71-43-2	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.50	5.00	5	ug/L	KCS
Bromobenzene	09	108-86-1	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.00	5.00	5	ug/L	KCS
Bromochloromethane	09	74-97-5	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.00	5.00	5	ug/L	KCS
Bromodichloromethane	09	75-27-4	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.50	2.50	5	ug/L	KCS
Bromoform	09	75-25-2	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.50	5.00	5	ug/L	KCS
Bromomethane	09	74-83-9	SW8260B	12/02/2016 14:07	12/02/2016 14:07	2.28	J	1.50	5.00	5	ug/L	KCS
Carbon disulfide	09	75-15-0	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		5.00	50.0	5	ug/L	KCS
Carbon tetrachloride	09	56-23-5	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.00	5.00	5	ug/L	KCS
Chlorobenzene	09	108-90-7	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.00	5.00	5	ug/L	KCS
Chloroethane	09	75-00-3	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.00	5.00	5	ug/L	KCS
Chloroform	09	67-66-3	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.00	2.50	5	ug/L	KCS
Chloromethane	09	74-87-3	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.50	5.00	5	ug/L	KCS
cis-1,2-Dichloroethylene	09	156-59-2	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.00	5.00	5	ug/L	KCS
cis-1,3-Dichloropropene	09	10061-01-5	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.00	5.00	5	ug/L	KCS
Dibromochloromethane	09	124-48-1	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		3.50	5.00	5	ug/L	KCS
Dibromomethane	09	74-95-3	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.50	5.00	5	ug/L	KCS
Dichlorodifluoromethane	09	75-71-8	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		5.00	5.00	5	ug/L	KCS
Di-isopropyl ether (DIPE)	09	108-20-3	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		25.0	25.0	5	ug/L	KCS
Ethylbenzene	09	100-41-4	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.00	5.00	5	ug/L	KCS
Hexachlorobutadiene	09	87-68-3	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		5.00	5.00	5	ug/L	KCS

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Laboratory Sample ID: 16L0048-09

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	09	74-88-4	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		8.50	50.0	5	ug/L	KCS
Isopropylbenzene	09	98-82-8	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.00	5.00	5	ug/L	KCS
m+p-Xylenes	09	179601-23-1	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.50	10.0	5	ug/L	KCS
Methylene chloride	09	75-09-2	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		5.00	20.0	5	ug/L	KCS
Methyl-t-butyl ether (MTBE)	09	1634-04-4	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.00	5.00	5	ug/L	KCS
Naphthalene	09	91-20-3	SW8260B	12/02/2016 14:07	12/02/2016 14:07	4.77	J	2.50	5.00	5	ug/L	KCS
n-Butylbenzene	09	104-51-8	SW8260B	12/02/2016 14:07	12/02/2016 14:07	0.72	J	0.50	5.00	5	ug/L	KCS
n-Propylbenzene	09	103-65-1	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		0.50	5.00	5	ug/L	KCS
o-Xylene	09	95-47-6	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.50	5.00	5	ug/L	KCS
sec-Butylbenzene	09	135-98-8	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		0.50	5.00	5	ug/L	KCS
Styrene	09	100-42-5	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.00	5.00	5	ug/L	KCS
tert-Butylbenzene	09	98-06-6	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		0.50	5.00	5	ug/L	KCS
Tetrachloroethylene (PCE)	09	127-18-4	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.00	5.00	5	ug/L	KCS
Toluene	09	108-88-3	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.00	5.00	5	ug/L	KCS
trans-1,2-Dichloroethylene	09	156-60-5	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.00	5.00	5	ug/L	KCS
trans-1,3-Dichloropropene	09	10061-02-6	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		2.50	5.00	5	ug/L	KCS
Trichloroethylene	09	79-01-6	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.50	5.00	5	ug/L	KCS
Trichlorofluoromethane	09	75-69-4	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.00	5.00	5	ug/L	KCS
Vinyl acetate	09	108-05-4	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		11.0	50.0	5	ug/L	KCS
Vinyl chloride	09	75-01-4	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		1.50	2.50	5	ug/L	KCS
Xylenes, Total	09	1330-20-7	SW8260B	12/02/2016 14:07	12/02/2016 14:07	BLOD		5.00	15.0	5	ug/L	KCS
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	09	95.5 %	70-120	12/02/2016 14:07	12/02/2016 14:07							
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	09	101 %	75-120	12/02/2016 14:07	12/02/2016 14:07							
<i>Surr: Dibromofluoromethane (Surr)</i>	09	95.2 %	80-119	12/02/2016 14:07	12/02/2016 14:07							

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW-30

Laboratory Sample ID: 16L0048-09

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
<i>Surr: Toluene-d8 (Surr)</i>	09	101 %	85-120	12/02/2016 14:07	12/02/2016 14:07							

Certificate of Analysis

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Client Sample ID: MW-30

Laboratory Sample ID: 16L0048-09

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
2,3,7,8-TCDD (SIM)	09	1746-01-6	EPA625	12/05/2016 09:16	12/08/2016 16:10	Not Detected				1	-	EWS
1,2,4,5-Tetrachlorobenzene	09	95-94-3	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	42.1	4	ug/L	EWS
1,2,4-Trichlorobenzene	09	120-82-1	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	42.1	4	ug/L	EWS
1,2-Dichlorobenzene	09	95-50-1	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
1,2-Diphenylhydrazine	09	122-66-7	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		42.1	42.1	4	ug/L	EWS
1,3-Dichlorobenzene	09	541-73-1	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
1,3-Dinitrobenzene	09	99-65-0	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		10.5	10.5	4	ug/L	EWS
1,4-Dichlorobenzene	09	106-46-7	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
1-Naphthylamine	09	134-32-7	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
2,3,4,6-Tetrachlorophenol	09	58-90-2	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
2,4,5-Trichlorophenol	09	95-95-4	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
2,4,6-Trichlorophenol	09	88-06-2	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
2,4-Dichlorophenol	09	120-83-2	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
2,4-Dimethylphenol	09	105-67-9	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		2.11	2.11	4	ug/L	EWS
2,4-Dinitrophenol	09	51-28-5	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		2.11	211	4	ug/L	EWS
2,4-Dinitrotoluene	09	121-14-2	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
2,6-Dichlorophenol	09	87-65-0	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
2,6-Dinitrotoluene	09	606-20-2	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
2-Chloronaphthalene	09	91-58-7	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
2-Chlorophenol	09	95-57-8	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
2-Methylnaphthalene	09	91-57-6	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	42.1	4	ug/L	EWS
2-Naphthylamine	09	91-59-8	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	42.1	4	ug/L	EWS
2-Nitroaniline	09	88-74-4	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	84.2	4	ug/L	EWS
2-Nitrophenol	09	88-75-5	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS

Certificate of Analysis

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Client Sample ID: MW-30

Laboratory Sample ID: 16L0048-09

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
3,3'-Dichlorobenzidine	09	91-94-1	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		16.8	42.1	4	ug/L	EWS
3-Methylcholanthrene	09	56-49-5	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
3-Nitroaniline	09	99-09-2	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	84.2	4	ug/L	EWS
4,6-Dinitro-2-methylphenol	09	534-52-1	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	211	4	ug/L	EWS
4-Aminobiphenyl	09	92-67-1	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	42.1	4	ug/L	EWS
4-Bromophenyl phenyl ether	09	101-55-3	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
4-Chloroaniline	09	106-47-8	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	42.1	4	ug/L	EWS
4-Chlorophenyl phenyl ether	09	7005-72-3	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
4-Nitroaniline	09	100-01-6	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	84.2	4	ug/L	EWS
4-Nitrophenol	09	100-02-7	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	211	4	ug/L	EWS
7,12-Dimethylbenz (a) anthracene	09	57-97-6	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	42.1	4	ug/L	EWS
Acenaphthene	09	83-32-9	SW8270D	12/05/2016 09:16	12/07/2016 03:13	23.9	J	4.21	42.1	4	ug/L	EWS
Acenaphthylene	09	208-96-8	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Acetophenone	09	98-86-2	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	84.2	4	ug/L	EWS
Aniline	09	62-53-3	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	211	4	ug/L	EWS
Anthracene	09	120-12-7	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Benzidine	09	92-87-5	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		211	211	4	ug/L	EWS
Benzo (a) anthracene	09	56-55-3	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		0.21	0.21	4	ug/L	EWS
Benzo (a) pyrene	09	50-32-8	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Benzo (b) fluoranthene	09	205-99-2	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Benzo (g,h,i) perylene	09	191-24-2	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Benzo (k) fluoranthene	09	207-08-9	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Benzoic acid	09	65-85-0	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	211	4	ug/L	EWS
Benzyl alcohol	09	100-51-6	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	84.2	4	ug/L	EWS

Certificate of Analysis

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Client Sample ID: MW-30

Laboratory Sample ID: 16L0048-09

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
bis (2-Chloroethoxy) methane	09	111-91-1	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
bis (2-Chloroethyl) ether	09	111-44-4	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
2,2'-Oxybis (1-chloropropane)	09	108-60-1	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
bis (2-Ethylhexyl) phthalate	09	117-81-7	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Butyl benzyl phthalate	09	85-68-7	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Chrysene	09	218-01-9	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Dibenz (a,h) anthracene	09	53-70-3	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Dibenz (a,j) acridine	09	224-42-0	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		12.6	42.1	4	ug/L	EWS
Dibenzofuran	09	132-64-9	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	21.1	4	ug/L	EWS
Diethyl phthalate	09	84-66-2	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Dimethyl phthalate	09	131-11-3	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Di-n-butyl phthalate	09	84-74-2	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	42.1	4	ug/L	EWS
Di-n-octyl phthalate	09	117-84-0	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Diphenylamine	09	122-39-4	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	42.1	4	ug/L	EWS
Ethyl methanesulfonate	09	62-50-0	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	84.2	4	ug/L	EWS
Fluoranthene	09	206-44-0	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Fluorene	09	86-73-7	SW8270D	12/05/2016 09:16	12/07/2016 03:13	12.3	J	4.21	42.1	4	ug/L	EWS
Hexachlorobenzene	09	118-74-1	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Hexachlorobutadiene	09	87-68-3	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Hexachlorocyclopentadiene	09	77-47-4	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Hexachloroethane	09	67-72-1	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Indeno (1,2,3-cd) pyrene	09	193-39-5	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Isophorone	09	78-59-1	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
m+p-Cresols	09	84989-04-8	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS

Certificate of Analysis

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Client Sample ID: MW-30

Laboratory Sample ID: 16L0048-09

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Methyl methanesulfonate	09	66-27-3	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Naphthalene	09	91-20-3	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	21.1	4	ug/L	EWS
Nitrobenzene	09	98-95-3	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
n-Nitrosodimethylamine	09	62-75-9	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	42.1	4	ug/L	EWS
n-Nitrosodi-n-butylamine	09	924-16-3	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	42.1	4	ug/L	EWS
n-Nitrosodi-n-propylamine	09	621-64-7	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	42.1	4	ug/L	EWS
n-Nitrosodiphenylamine	09	86-30-6	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
n-Nitrosopiperidine	09	100-75-4	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	42.1	4	ug/L	EWS
o+m+p-Cresols	09	1319-77-3	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		12.6	42.1	4	ug/L	EWS
o-Cresol	09	95-48-7	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
p-(Dimethylamino) azobenzene	09	60-11-7	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	10.5	4	ug/L	EWS
p-Chloro-m-cresol	09	59-50-7	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Pentachloronitrobenzene (quintozene)	09	82-68-8	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Pentachlorophenol	09	87-86-5	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	84.2	4	ug/L	EWS
Phenacetin	09	62-44-2	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Phenanthrene	09	85-01-8	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Phenol	09	108-95-2	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
Pronamide	09	23950-58-5	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		8.42	42.1	4	ug/L	EWS
Pyrene	09	129-00-0	SW8270D	12/05/2016 09:16	12/07/2016 03:13	4.31	J	4.21	42.1	4	ug/L	EWS
Pyridine	09	110-86-1	SW8270D	12/05/2016 09:16	12/07/2016 03:13	BLOD		4.21	42.1	4	ug/L	EWS
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	09	34.9 %	40-125	12/05/2016 09:16	12/07/2016 03:13							DS
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	09	16.5 %	23-87	12/05/2016 09:16	12/07/2016 03:13							DS
<i>Surr: 2-Fluorophenol (Surr)</i>	09	14.0 %	14-52	12/05/2016 09:16	12/07/2016 03:13							
<i>Surr: Nitrobenzene-d5 (Surr)</i>	09	21.3 %	40-110	12/05/2016 09:16	12/07/2016 03:13							DS
<i>Surr: Phenol-d5 (Surr)</i>	09	7.99 %	5-33	12/05/2016 09:16	12/07/2016 03:13							

Certificate of Analysis

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Laboratory Sample ID: 16L0048-09

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatle Organic Compounds by GCMS												
Surr: p-Terphenyl-d14 (Surr)	09	30.5 %	27-133	12/05/2016 09:16	12/07/2016 03:13							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
PCB as Aroclor 1016	09	12674-11-2	SW8082A	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.029	0.225	1	ug/L	SKS
PCB as Aroclor 1221	09	11104-28-2	SW8082A	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.225	0.225	1	ug/L	SKS
PCB as Aroclor 1232	09	11141-16-5	SW8082A	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.017	0.225	1	ug/L	SKS
PCB as Aroclor 1242	09	53469-21-9	SW8082A	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.046	0.225	1	ug/L	SKS
PCB as Aroclor 1248	09	12672-29-6	SW8082A	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.054	0.225	1	ug/L	SKS
PCB as Aroclor 1254	09	11097-69-1	SW8082A	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.039	0.225	1	ug/L	SKS
PCB as Aroclor 1260	09	11096-82-5	SW8082A	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.038	0.225	1	ug/L	SKS
Surr: DCB	09	170 %	30-105	12/05/2016 13:48	12/07/2016 22:30							S
Surr: TCMX	09	90.0 %	30-105	12/05/2016 13:48	12/07/2016 22:30							
4,4'-DDD	09	72-54-8	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.006	0.056	1	ug/L	SKS
4,4'-DDE	09	72-55-9	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.006	0.056	1	ug/L	SKS
4,4'-DDT	09	50-29-3	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.006	0.056	1	ug/L	SKS
Aldrin	09	309-00-2	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.006	0.056	1	ug/L	SKS
alpha-BHC	09	319-84-6	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.006	0.056	1	ug/L	SKS
beta-BHC	09	319-85-7	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.006	0.056	1	ug/L	SKS
Chlordane	09	57-74-9	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.225	0.225	1	ug/L	SKS
delta-BHC	09	319-86-8	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.002	0.056	1	ug/L	SKS
Dieldrin	09	60-57-1	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.003	0.056	1	ug/L	SKS
Endosulfan I	09	959-98-8	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.002	0.056	1	ug/L	SKS
Endosulfan II	09	33213-65-9	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.002	0.056	1	ug/L	SKS
Endosulfan sulfate	09	1031-07-8	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.002	0.056	1	ug/L	SKS
Endrin	09	72-20-8	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.002	0.056	1	ug/L	SKS
Endrin aldehyde	09	7421-93-4	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.002	0.056	1	ug/L	SKS
gamma-BHC (Lindane)	09	58-89-9	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.003	0.056	1	ug/L	SKS

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: MW-30

Laboratory Sample ID: 16L0048-09

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
Heptachlor	09	76-44-8	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.003	0.056	1	ug/L	SKS
Heptachlor epoxide	09	1024-57-3	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.002	0.056	1	ug/L	SKS
Methoxychlor	09	72-43-5	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.004	0.056	1	ug/L	SKS
Toxaphene	09	8001-35-2	SW8081B	12/05/2016 13:48	12/07/2016 22:30	BLOD		0.225	1.12	1	ug/L	SKS
Surr: TCMX	09	60.0 %	18-112	12/05/2016 13:48	12/07/2016 22:30							
Surr: DCB	09	115 %	27-131	12/05/2016 13:48	12/07/2016 22:30							

Certificate of Analysis

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 Submitted To: Julia Campus

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Client Sample ID: MW-30

Laboratory Sample ID: 16L0048-09

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Wet Chemistry Analysis												
Cyanide	09	57-12-5	SW9012B	12/06/2016 16:06	12/06/2016 16:06	0.48		0.05	0.05	5	mg/L	BBP

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: Trip Blank

Laboratory Sample ID: 16L0048-10

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	10	630-20-6	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.10	0.40	1	ug/L	KCS
1,1,1-Trichloroethane	10	71-55-6	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.70	1.00	1	ug/L	KCS
1,1,1,2-Tetrachloroethane	10	79-34-5	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.40	0.40	1	ug/L	KCS
1,1,2-Trichloroethane	10	79-00-5	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.50	1.00	1	ug/L	KCS
1,1-Dichloroethane	10	75-34-3	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.40	1.00	1	ug/L	KCS
1,1-Dichloroethylene	10	75-35-4	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.30	1.00	1	ug/L	KCS
1,1-Dichloropropene	10	563-58-6	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.20	1.00	1	ug/L	KCS
1,2,3-Trichlorobenzene	10	87-61-6	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.30	1.00	1	ug/L	KCS
1,2,3-Trichloropropane	10	96-18-4	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.40	1.00	1	ug/L	KCS
1,2,4-Trichlorobenzene	10	120-82-1	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.30	1.00	1	ug/L	KCS
1,2,4-Trimethylbenzene	10	95-63-6	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.20	1.00	1	ug/L	KCS
1,2-Dibromo-3-chloropropane (DBCP)	10	96-12-8	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.80	4.00	1	ug/L	KCS
1,2-Dibromoethane (EDB)	10	106-93-4	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.40	1.00	1	ug/L	KCS
1,2-Dichlorobenzene	10	95-50-1	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.20	1.00	1	ug/L	KCS
1,2-Dichloroethane	10	107-06-2	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.90	1.00	1	ug/L	KCS
1,2-Dichloropropane	10	78-87-5	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.60	1.00	1	ug/L	KCS
1,3,5-Trimethylbenzene	10	108-67-8	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.20	1.00	1	ug/L	KCS
1,3-Dichlorobenzene	10	541-73-1	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.20	1.00	1	ug/L	KCS
1,3-Dichloropropane	10	142-28-9	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.20	1.00	1	ug/L	KCS
1,4-Dichlorobenzene	10	106-46-7	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.40	1.00	1	ug/L	KCS
2,2-Dichloropropane	10	594-20-7	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.30	2.00	1	ug/L	KCS
2-Butanone (MEK)	10	78-93-3	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		5.00	10.0	1	ug/L	KCS
2-Chlorotoluene	10	95-49-8	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.20	1.00	1	ug/L	KCS
2-Hexanone (MBK)	10	591-78-6	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		5.00	5.00	1	ug/L	KCS

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: Trip Blank

Laboratory Sample ID: 16L0048-10

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Chlorotoluene	10	106-43-4	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.20	1.00	1	ug/L	KCS
4-Isopropyltoluene	10	99-87-6	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.20	1.00	1	ug/L	KCS
4-Methyl-2-pentanone (MIBK)	10	108-10-1	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		5.00	5.00	1	ug/L	KCS
Acetone	10	67-64-1	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		7.00	10.0	1	ug/L	KCS
Benzene	10	71-43-2	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.30	1.00	1	ug/L	KCS
Bromobenzene	10	108-86-1	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.20	1.00	1	ug/L	KCS
Bromochloromethane	10	74-97-5	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.40	1.00	1	ug/L	KCS
Bromodichloromethane	10	75-27-4	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.30	0.50	1	ug/L	KCS
Bromoform	10	75-25-2	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.50	1.00	1	ug/L	KCS
Bromomethane	10	74-83-9	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.30	1.00	1	ug/L	KCS
Carbon disulfide	10	75-15-0	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		1.00	10.0	1	ug/L	KCS
Carbon tetrachloride	10	56-23-5	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.40	1.00	1	ug/L	KCS
Chlorobenzene	10	108-90-7	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.40	1.00	1	ug/L	KCS
Chloroethane	10	75-00-3	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.40	1.00	1	ug/L	KCS
Chloroform	10	67-66-3	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.40	0.50	1	ug/L	KCS
Chloromethane	10	74-87-3	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.50	1.00	1	ug/L	KCS
cis-1,2-Dichloroethylene	10	156-59-2	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.40	1.00	1	ug/L	KCS
cis-1,3-Dichloropropene	10	10061-01-5	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.20	1.00	1	ug/L	KCS
Dibromochloromethane	10	124-48-1	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.70	1.00	1	ug/L	KCS
Dibromomethane	10	74-95-3	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.30	1.00	1	ug/L	KCS
Dichlorodifluoromethane	10	75-71-8	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		1.00	1.00	1	ug/L	KCS
Di-isopropyl ether (DIPE)	10	108-20-3	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		5.00	5.00	1	ug/L	KCS
Ethylbenzene	10	100-41-4	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.20	1.00	1	ug/L	KCS
Hexachlorobutadiene	10	87-68-3	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		1.00	1.00	1	ug/L	KCS

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: Trip Blank

Laboratory Sample ID: 16L0048-10

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	10	74-88-4	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		1.70	10.0	1	ug/L	KCS
Isopropylbenzene	10	98-82-8	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.20	1.00	1	ug/L	KCS
m+p-Xylenes	10	179601-23-1	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.50	2.00	1	ug/L	KCS
Methylene chloride	10	75-09-2	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		1.00	4.00	1	ug/L	KCS
Methyl-t-butyl ether (MTBE)	10	1634-04-4	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.40	1.00	1	ug/L	KCS
Naphthalene	10	91-20-3	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.50	1.00	1	ug/L	KCS
n-Butylbenzene	10	104-51-8	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.10	1.00	1	ug/L	KCS
n-Propylbenzene	10	103-65-1	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.10	1.00	1	ug/L	KCS
o-Xylene	10	95-47-6	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.50	1.00	1	ug/L	KCS
sec-Butylbenzene	10	135-98-8	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.10	1.00	1	ug/L	KCS
Styrene	10	100-42-5	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.20	1.00	1	ug/L	KCS
tert-Butylbenzene	10	98-06-6	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.10	1.00	1	ug/L	KCS
Tetrachloroethylene (PCE)	10	127-18-4	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.40	1.00	1	ug/L	KCS
Toluene	10	108-88-3	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.40	1.00	1	ug/L	KCS
trans-1,2-Dichloroethylene	10	156-60-5	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.40	1.00	1	ug/L	KCS
trans-1,3-Dichloropropene	10	10061-02-6	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.50	1.00	1	ug/L	KCS
Trichloroethylene	10	79-01-6	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.30	1.00	1	ug/L	KCS
Trichlorofluoromethane	10	75-69-4	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.20	1.00	1	ug/L	KCS
Vinyl acetate	10	108-05-4	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		2.20	10.0	1	ug/L	KCS
Vinyl chloride	10	75-01-4	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		0.30	0.50	1	ug/L	KCS
Xylenes, Total	10	1330-20-7	SW8260B	12/02/2016 11:44	12/02/2016 11:44	BLOD		1.00	3.00	1	ug/L	KCS
Surr: 1,2-Dichloroethane-d4 (Surr)	10	92.7 %	70-120	12/02/2016 11:44	12/02/2016 11:44							
Surr: 4-Bromofluorobenzene (Surr)	10	99.8 %	75-120	12/02/2016 11:44	12/02/2016 11:44							
Surr: Dibromofluoromethane (Surr)	10	93.7 %	80-119	12/02/2016 11:44	12/02/2016 11:44							

Certificate of Analysis

Client Name: Timmons Group
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Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: Trip Blank

Laboratory Sample ID: 16L0048-10

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
<i>Surr: Toluene-d8 (Surr)</i>	10	100 %	85-120	12/02/2016 11:44	12/02/2016 11:44							

Certificate of Analysis

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Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-22

Laboratory Sample ID: 16L0048-11

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	11	7440-22-4	SW6010C	12/05/2016 08:45	12/05/2016 14:24	BLOD		0.490	0.500	1	mg/kg	CWO
Arsenic	11	7440-38-2	SW6010C	12/05/2016 08:45	12/05/2016 14:24	5.29		0.979	1.00	1	mg/kg	CWO
Beryllium	11RE1	7440-41-7	SW6010C	12/05/2016 08:45	12/05/2016 16:43	BLOD		0.979	0.979	5	mg/kg	CWO
Cadmium	11	7440-43-9	SW6010C	12/05/2016 08:45	12/05/2016 14:24	3.97		0.196	0.200	1	mg/kg	CWO
Chromium	11	7440-47-3	SW6010C	12/05/2016 08:45	12/05/2016 14:24	7.79		0.490	0.500	1	mg/kg	CWO
Copper	11	7440-50-8	SW6010C	12/05/2016 08:45	12/05/2016 14:24	5.00		0.490	2.50	1	mg/kg	CWO
Mercury	11	7439-97-6	SW7471B	12/05/2016 12:00	12/06/2016 11:58	0.013		0.008	0.008	1	mg/kg	MWL
Nickel	11	7440-02-0	SW6010C	12/05/2016 08:45	12/05/2016 14:24	5.86		0.490	0.500	1	mg/kg	CWO
Lead	11	7439-92-1	SW6010C	12/05/2016 08:45	12/05/2016 14:24	9.49		0.490	0.500	1	mg/kg	CWO
Antimony	11	7440-36-0	SW6010C	12/05/2016 08:45	12/05/2016 14:24	BLOD		4.90	5.00	1	mg/kg	CWO
Selenium	11RE1	7782-49-2	SW6010C	12/05/2016 08:45	12/05/2016 16:43	BLOD		12.2	12.2	5	mg/kg	CWO
Thallium	11RE1	7440-28-0	SW6010C	12/05/2016 08:45	12/05/2016 16:43	BLOD		12.2	12.2	5	mg/kg	CWO
Zinc	11	7440-66-6	SW6010C	12/05/2016 08:45	12/05/2016 14:24	18.0		0.490	0.500	1	mg/kg	CWO

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-23

Laboratory Sample ID: 16L0048-12

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	12	7440-22-4	SW6010C	12/05/2016 08:45	12/05/2016 14:26	BLOD		0.477	0.500	1	mg/kg	CWO
Arsenic	12	7440-38-2	SW6010C	12/05/2016 08:45	12/05/2016 14:26	8.93		0.953	1.00	1	mg/kg	CWO
Beryllium	12RE1	7440-41-7	SW6010C	12/05/2016 08:45	12/05/2016 16:45	BLOD		0.953	0.953	5	mg/kg	CWO
Cadmium	12	7440-43-9	SW6010C	12/05/2016 08:45	12/05/2016 14:26	1.76		0.191	0.200	1	mg/kg	CWO
Chromium	12	7440-47-3	SW6010C	12/05/2016 08:45	12/05/2016 14:26	16.5		0.477	0.500	1	mg/kg	CWO
Copper	12	7440-50-8	SW6010C	12/05/2016 08:45	12/05/2016 14:26	36.8		0.477	2.50	1	mg/kg	CWO
Mercury	12	7439-97-6	SW7471B	12/05/2016 12:00	12/06/2016 12:00	0.175		0.008	0.008	1	mg/kg	MWL
Nickel	12	7440-02-0	SW6010C	12/05/2016 08:45	12/05/2016 14:26	10.1		0.477	0.500	1	mg/kg	CWO
Lead	12	7439-92-1	SW6010C	12/05/2016 08:45	12/05/2016 14:26	126		0.477	0.500	1	mg/kg	CWO
Antimony	12	7440-36-0	SW6010C	12/05/2016 08:45	12/05/2016 14:26	BLOD		4.77	5.00	1	mg/kg	CWO
Selenium	12RE1	7782-49-2	SW6010C	12/05/2016 08:45	12/05/2016 16:45	BLOD		11.9	11.9	5	mg/kg	CWO
Thallium	12	7440-28-0	SW6010C	12/05/2016 08:45	12/05/2016 14:26	BLOD		2.38	2.50	1	mg/kg	CWO
Zinc	12	7440-66-6	SW6010C	12/05/2016 08:45	12/05/2016 14:26	70.8		0.477	0.500	1	mg/kg	CWO

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-23

Laboratory Sample ID: 16L0048-12

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	12	630-20-6	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,1,1-Trichloroethane	12	71-55-6	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,1,2,2-Tetrachloroethane	12	79-34-5	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,1,2-Trichloroethane	12	79-00-5	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,1-Dichloroethane	12	75-34-3	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,1-Dichloroethylene	12	75-35-4	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,1-Dichloropropene	12	563-58-6	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,2,3-Trichlorobenzene	12	87-61-6	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,2,3-Trichloropropane	12	96-18-4	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,2,4-Trichlorobenzene	12	120-82-1	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,2,4-Trimethylbenzene	12	95-63-6	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,2-Dibromo-3-chloropropane (DBCP)	12	96-12-8	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,2-Dibromoethane (EDB)	12	106-93-4	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,2-Dichlorobenzene	12	95-50-1	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,2-Dichloroethane	12	107-06-2	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,2-Dichloropropane	12	78-87-5	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,3,5-Trimethylbenzene	12	108-67-8	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,3-Dichlorobenzene	12	541-73-1	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,3-Dichloropropane	12	142-28-9	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
1,4-Dichlorobenzene	12	106-46-7	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
2,2-Dichloropropane	12	594-20-7	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
2-Butanone (MEK)	12	78-93-3	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
2-Chlorotoluene	12	95-49-8	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
2-Hexanone (MBK)	12	591-78-6	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Chlorotoluene	12	106-43-4	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
4-Isopropyltoluene	12	99-87-6	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
4-Methyl-2-pentanone (MIBK)	12	108-10-1	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Acetone	12	67-64-1	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		500	500	50	ug/kg	KCS
Benzene	12	71-43-2	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Bromobenzene	12	108-86-1	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Bromochloromethane	12	74-97-5	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Bromodichloromethane	12	75-27-4	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Bromoform	12	75-25-2	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Bromomethane	12	74-83-9	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Carbon disulfide	12	75-15-0	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Carbon tetrachloride	12	56-23-5	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Chlorobenzene	12	108-90-7	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Chloroethane	12	75-00-3	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Chloroform	12	67-66-3	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Chloromethane	12	74-87-3	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
cis-1,2-Dichloroethylene	12	156-59-2	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
cis-1,3-Dichloropropene	12	10061-01-5	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Dibromochloromethane	12	124-48-1	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Dibromomethane	12	74-95-3	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Dichlorodifluoromethane	12	75-71-8	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Di-isopropyl ether (DIPE)	12	108-20-3	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Ethylbenzene	12	100-41-4	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Hexachlorobutadiene	12	87-68-3	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	12	74-88-4	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Isopropylbenzene	12	98-82-8	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
m+p-Xylenes	12	179601-23-1	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Methylene chloride	12	75-09-2	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Methyl-t-butyl ether (MTBE)	12	1634-04-4	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Naphthalene	12	91-20-3	SW8260B	12/06/2016 16:18	12/06/2016 16:18	2510		250	250	50	ug/kg	KCS
n-Butylbenzene	12	104-51-8	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
n-Propylbenzene	12	103-65-1	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
o-Xylene	12	95-47-6	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
sec-Butylbenzene	12	135-98-8	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Styrene	12	100-42-5	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
tert-Butylbenzene	12	98-06-6	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Tetrachloroethylene (PCE)	12	127-18-4	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Toluene	12	108-88-3	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
trans-1,2-Dichloroethylene	12	156-60-5	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
trans-1,3-Dichloropropene	12	10061-02-6	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Trichloroethylene	12	79-01-6	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Trichlorofluoromethane	12	75-69-4	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Vinyl acetate	12	108-05-4	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	500	50	ug/kg	KCS
Vinyl chloride	12	75-01-4	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		250	250	50	ug/kg	KCS
Xylenes, Total	12	1330-20-7	SW8260B	12/06/2016 16:18	12/06/2016 16:18	BLOD		750	750	50	ug/kg	KCS
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	12	93.0 %	80-120	12/06/2016 16:18	12/06/2016 16:18							
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	12	100 %	85-120	12/06/2016 16:18	12/06/2016 16:18							
<i>Surr: Dibromofluoromethane (Surr)</i>	12	91.0 %	80-119	12/06/2016 16:18	12/06/2016 16:18							

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Volatile Organic Compounds by GCMS												
<i>Surr: Toluene-d8 (Surr)</i>	12	98.3 %	85-115	12/06/2016 16:18	12/06/2016 16:18							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
1,2,4,5-Tetrachlorobenzene	12	95-94-3	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
1,2,4-Trichlorobenzene	12	120-82-1	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
1,2-Dichlorobenzene	12	95-50-1	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
1,2-Diphenylhydrazine	12	122-66-7	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
1,3-Dichlorobenzene	12	541-73-1	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
1,4-Dichlorobenzene	12	106-46-7	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
1-Chloronaphthalene	12	90-13-1	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
1-Naphthylamine	12	134-32-7	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
2,3,4,6-Tetrachlorophenol	12	58-90-2	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
2,4,5-Trichlorophenol	12	95-95-4	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
2,4,6-Trichlorophenol	12	88-06-2	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
2,4-Dichlorophenol	12	120-83-2	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
2,4-Dimethylphenol	12	105-67-9	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
2,4-Dinitrophenol	12	51-28-5	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD	C	3720	3720	25	ug/kg	EWS
2,4-Dinitrotoluene	12	121-14-2	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD	C	3720	3720	25	ug/kg	EWS
2,6-Dichlorophenol	12	87-65-0	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD	C	3720	3720	25	ug/kg	EWS
2,6-Dinitrotoluene	12	606-20-2	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
2-Chloronaphthalene	12	91-58-7	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
2-Chlorophenol	12	95-57-8	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
2-Methylnaphthalene	12	91-57-6	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
2-Naphthylamine	12	91-59-8	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
2-Nitroaniline	12	88-74-4	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
2-Nitrophenol	12	88-75-5	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
3,3'-Dichlorobenzidine	12	91-94-1	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD	C	3720	3720	25	ug/kg	EWS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
3-Methylcholanthrene	12	56-49-5	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
3-Nitroaniline	12	99-09-2	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD	C	3720	3720	25	ug/kg	EWS
4,6-Dinitro-2-methylphenol	12	534-52-1	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD	C	3720	3720	25	ug/kg	EWS
4-Aminobiphenyl	12	92-67-1	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
4-Bromophenyl phenyl ether	12	101-55-3	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
4-Chloroaniline	12	106-47-8	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
4-Chlorophenyl phenyl ether	12	7005-72-3	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
4-Nitroaniline	12	100-01-6	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
4-Nitrophenol	12	100-02-7	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
7,12-Dimethylbenz (a) anthracene	12	57-97-6	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Acenaphthene	12	83-32-9	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Acenaphthylene	12	208-96-8	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Acetophenone	12	98-86-2	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Aniline	12	62-53-3	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Anthracene	12	120-12-7	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Benzidine	12	92-87-5	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD	C	3720	3720	25	ug/kg	EWS
Benzo (a) anthracene	12	56-55-3	SW8270D	12/06/2016 09:59	12/07/2016 20:58	12200		3720	3720	25	ug/kg	EWS
Benzo (a) pyrene	12	50-32-8	SW8270D	12/06/2016 09:59	12/07/2016 20:58	9230		3720	3720	25	ug/kg	EWS
Benzo (b) fluoranthene	12	205-99-2	SW8270D	12/06/2016 09:59	12/07/2016 20:58	19100		3720	3720	25	ug/kg	EWS
Benzo (g,h,i) perylene	12	191-24-2	SW8270D	12/06/2016 09:59	12/07/2016 20:58	3770		3720	3720	25	ug/kg	EWS
Benzo (k) fluoranthene	12	207-08-9	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Benzoic acid	12	65-85-0	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Benzyl alcohol	12	100-51-6	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
bis (2-Chloroethoxy) methane	12	111-91-1	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS

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Semivolatile Organic Compounds by GCMS												
bis (2-Chloroethyl) ether	12	111-44-4	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
2,2'-Oxybis (1-chloropropane)	12	108-60-1	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
bis (2-Ethylhexyl) phthalate	12	117-81-7	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Butyl benzyl phthalate	12	85-68-7	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Chrysene	12	218-01-9	SW8270D	12/06/2016 09:59	12/07/2016 20:58	12100		3720	3720	25	ug/kg	EWS
Dibenz (a,h) anthracene	12	53-70-3	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Dibenz (a,j) acridine	12	224-42-0	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Dibenzofuran	12	132-64-9	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Diethyl phthalate	12	84-66-2	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Dimethyl phthalate	12	131-11-3	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Di-n-butyl phthalate	12	84-74-2	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Di-n-octyl phthalate	12	117-84-0	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Diphenylamine	12	122-39-4	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Ethyl methanesulfonate	12	62-50-0	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Fluoranthene	12	206-44-0	SW8270D	12/06/2016 09:59	12/07/2016 20:58	15800		3720	3720	25	ug/kg	EWS
Fluorene	12	86-73-7	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Hexachlorobenzene	12	118-74-1	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Hexachlorobutadiene	12	87-68-3	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Hexachlorocyclopentadiene	12	77-47-4	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD	C	3720	3720	25	ug/kg	EWS
Hexachloroethane	12	67-72-1	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Indeno (1,2,3-cd) pyrene	12	193-39-5	SW8270D	12/06/2016 09:59	12/07/2016 20:58	3810		3720	3720	25	ug/kg	EWS
Isophorone	12	78-59-1	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
m+p-Cresols	12	84989-04-8	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Methyl methanesulfonate	12	66-27-3	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS

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Client Sample ID: SB-23

Laboratory Sample ID: 16L0048-12

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Naphthalene	12	91-20-3	SW8270D	12/06/2016 09:59	12/07/2016 20:58	3950		3720	3720	25	ug/kg	EWS
Nitrobenzene	12	98-95-3	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
n-Nitrosodimethylamine	12	62-75-9	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
n-Nitrosodi-n-butylamine	12	924-16-3	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
n-Nitrosodi-n-propylamine	12	621-64-7	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
n-Nitrosodiphenylamine	12	86-30-6	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
n-Nitrosopiperidine	12	100-75-4	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
o+m+p-Cresols	12	1319-77-3	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
o-Cresol	12	95-48-7	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
p-(Dimethylamino) azobenzene	12	60-11-7	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
p-Chloro-m-cresol	12	59-50-7	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Pentachloronitrobenzene (quintozene)	12	82-68-8	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Pentachlorophenol	12	87-86-5	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Phenacetin	12	62-44-2	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Phenanthrene	12	85-01-8	SW8270D	12/06/2016 09:59	12/07/2016 20:58	18600		3720	3720	25	ug/kg	EWS
Phenol	12	108-95-2	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Pronamide	12	23950-58-5	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Pyrene	12	129-00-0	SW8270D	12/06/2016 09:59	12/07/2016 20:58	30800		3720	3720	25	ug/kg	EWS
Pyridine	12	110-86-1	SW8270D	12/06/2016 09:59	12/07/2016 20:58	BLOD		3720	3720	25	ug/kg	EWS
Surr: 2,4,6-Tribromophenol (Surr)	12	71.6 %	35-125	12/06/2016 09:59	12/07/2016 20:58							
Surr: 2-Fluorobiphenyl (Surr)	12	%	45-105	12/06/2016 09:59	12/07/2016 20:58							DS
Surr: 2-Fluorophenol (Surr)	12	62.2 %	35-105	12/06/2016 09:59	12/07/2016 20:58							
Surr: Nitrobenzene-d5 (Surr)	12	40.1 %	35-100	12/06/2016 09:59	12/07/2016 20:58							
Surr: Phenol-d5 (Surr)	12	41.2 %	40-100	12/06/2016 09:59	12/07/2016 20:58							
Surr: p-Terphenyl-d14 (Surr)	12	45.7 %	30-125	12/06/2016 09:59	12/07/2016 20:58							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
PCB as Aroclor 1016	12	12674-11-2	SW8082A	12/05/2016 14:05	12/08/2016 01:02	BLOD		0.119	0.238	1	mg/kg dry	SKS
PCB as Aroclor 1221	12	11104-28-2	SW8082A	12/05/2016 14:05	12/08/2016 01:02	BLOD		0.119	0.238	1	mg/kg dry	SKS
PCB as Aroclor 1232	12	11141-16-5	SW8082A	12/05/2016 14:05	12/08/2016 01:02	BLOD		0.119	0.238	1	mg/kg dry	SKS
PCB as Aroclor 1242	12	53469-21-9	SW8082A	12/05/2016 14:05	12/08/2016 01:02	BLOD		0.119	0.238	1	mg/kg dry	SKS
PCB as Aroclor 1248	12	12672-29-6	SW8082A	12/05/2016 14:05	12/08/2016 01:02	BLOD		0.119	0.238	1	mg/kg dry	SKS
PCB as Aroclor 1254	12	11097-69-1	SW8082A	12/05/2016 14:05	12/08/2016 01:02	BLOD		0.119	0.238	1	mg/kg dry	SKS
PCB as Aroclor 1260	12	11096-82-5	SW8082A	12/05/2016 14:05	12/08/2016 01:02	BLOD		0.119	0.238	1	mg/kg dry	SKS
Surr: DCB	12	115 %	30-105	12/05/2016 14:05	12/08/2016 01:02							S
Surr: TCMX	12	40.0 %	30-105	12/05/2016 14:05	12/08/2016 01:02							
4,4'-DDD	12	72-54-8	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		11.9	11.9	1	ug/kg	SKS
4,4'-DDE	12	72-55-9	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		7.95	7.95	1	ug/kg	SKS
4,4'-DDT	12	50-29-3	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		7.95	7.95	1	ug/kg	SKS
Aldrin	12	309-00-2	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		3.97	3.97	1	ug/kg	SKS
alpha-BHC	12	319-84-6	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		3.97	3.97	1	ug/kg	SKS
beta-BHC	12	319-85-7	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		3.97	3.97	1	ug/kg	SKS
Chlordane	12	57-74-9	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		19.9	83.4	1	ug/kg	SKS
delta-BHC	12	319-86-8	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		7.95	7.95	1	ug/kg	SKS
Dieldrin	12	60-57-1	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		7.95	7.95	1	ug/kg	SKS
Endosulfan I	12	959-98-8	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		7.95	7.95	1	ug/kg	SKS
Endosulfan II	12	33213-65-9	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		11.9	11.9	1	ug/kg	SKS
Endosulfan sulfate	12	1031-07-8	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		3.97	3.97	1	ug/kg	SKS
Endrin	12	72-20-8	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		7.95	7.95	1	ug/kg	SKS
Endrin aldehyde	12	7421-93-4	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		15.9	15.9	1	ug/kg	SKS
Endrin ketone	12	53494-70-5	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		3.97	3.97	1	ug/kg	SKS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
gamma-BHC (Lindane)	12	58-89-9	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		3.97	3.97	1	ug/kg	SKS
Heptachlor	12	76-44-8	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		3.97	3.97	1	ug/kg	SKS
Heptachlor epoxide	12	1024-57-3	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		3.97	79.5	1	ug/kg	SKS
Methoxychlor	12	72-43-5	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		3.97	79.5	1	ug/kg	SKS
Mirex	12	2385-85-5	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		11.9	11.9	1	ug/kg	SKS
Toxaphene	12	8001-35-2	SW8081B	12/05/2016 14:05	12/08/2016 01:02	BLOD		19.9	83.4	1	ug/kg	SKS
Surr: TCMX	12	35.0 %	30-105	12/05/2016 14:05	12/08/2016 01:02							
Surr: DCB	12	95.0 %	30-105	12/05/2016 14:05	12/08/2016 01:02							

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Wet Chemistry Analysis												
Cyanide	12	57-12-5	SW9012B	12/06/2016 17:03	12/06/2016 17:03	15.8		0.99	0.99	1	mg/kg	BBP
Percent Solids	12	NA	SM18 2540G	12/07/2016 10:00	12/08/2016 09:52	83.4		0.10	0.10	1	%	RCV
pH	12	NA	SW9045D	12/02/2016 17:21	12/02/2016 17:21	7.25		0.00	0.00	1	SU	DLF

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Laboratory Sample ID: 16L0048-13

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	13	7440-22-4	SW6010C	12/05/2016 08:45	12/05/2016 14:31	BLOD		0.463	0.500	1	mg/kg	CWO
Arsenic	13	7440-38-2	SW6010C	12/05/2016 08:45	12/05/2016 14:31	3.16		0.926	1.00	1	mg/kg	CWO
Beryllium	13RE1	7440-41-7	SW6010C	12/05/2016 08:45	12/05/2016 16:46	BLOD		0.926	0.926	5	mg/kg	CWO
Cadmium	13	7440-43-9	SW6010C	12/05/2016 08:45	12/05/2016 14:31	1.03		0.185	0.200	1	mg/kg	CWO
Chromium	13	7440-47-3	SW6010C	12/05/2016 08:45	12/05/2016 14:31	12.6		0.463	0.500	1	mg/kg	CWO
Copper	13	7440-50-8	SW6010C	12/05/2016 08:45	12/05/2016 14:31	9.72		0.463	2.50	1	mg/kg	CWO
Mercury	13RE1	7439-97-6	SW7471B	12/05/2016 12:00	12/06/2016 13:00	0.214		0.077	0.077	10	mg/kg	MWL
Nickel	13	7440-02-0	SW6010C	12/05/2016 08:45	12/05/2016 14:31	8.49		0.463	0.500	1	mg/kg	CWO
Lead	13	7439-92-1	SW6010C	12/05/2016 08:45	12/05/2016 14:31	22.6		0.463	0.500	1	mg/kg	CWO
Antimony	13	7440-36-0	SW6010C	12/05/2016 08:45	12/05/2016 14:31	BLOD		4.63	5.00	1	mg/kg	CWO
Selenium	13RE1	7782-49-2	SW6010C	12/05/2016 08:45	12/05/2016 16:47	BLOD		11.6	11.6	5	mg/kg	CWO
Thallium	13	7440-28-0	SW6010C	12/05/2016 08:45	12/05/2016 14:31	BLOD		2.31	2.50	1	mg/kg	CWO
Zinc	13	7440-66-6	SW6010C	12/05/2016 08:45	12/05/2016 14:31	44.1		0.463	0.500	1	mg/kg	CWO

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	13	630-20-6	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,1,1-Trichloroethane	13	71-55-6	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,1,2,2-Tetrachloroethane	13	79-34-5	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,1,2-Trichloroethane	13	79-00-5	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,1-Dichloroethane	13	75-34-3	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,1-Dichloroethylene	13	75-35-4	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,1-Dichloropropene	13	563-58-6	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,2,3-Trichlorobenzene	13	87-61-6	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,2,3-Trichloropropane	13	96-18-4	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,2,4-Trichlorobenzene	13	120-82-1	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,2,4-Trimethylbenzene	13	95-63-6	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,2-Dibromo-3-chloropropane (DBCP)	13	96-12-8	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,2-Dibromoethane (EDB)	13	106-93-4	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,2-Dichlorobenzene	13	95-50-1	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,2-Dichloroethane	13	107-06-2	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,2-Dichloropropane	13	78-87-5	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,3,5-Trimethylbenzene	13	108-67-8	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,3-Dichlorobenzene	13	541-73-1	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,3-Dichloropropane	13	142-28-9	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
1,4-Dichlorobenzene	13	106-46-7	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
2,2-Dichloropropane	13	594-20-7	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
2-Butanone (MEK)	13	78-93-3	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
2-Chlorotoluene	13	95-49-8	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
2-Hexanone (MBK)	13	591-78-6	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Chlorotoluene	13	106-43-4	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
4-Isopropyltoluene	13	99-87-6	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
4-Methyl-2-pentanone (MIBK)	13	108-10-1	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Acetone	13	67-64-1	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		500	500	50	ug/kg	KCS
Benzene	13	71-43-2	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Bromobenzene	13	108-86-1	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Bromochloromethane	13	74-97-5	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Bromodichloromethane	13	75-27-4	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Bromoform	13	75-25-2	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Bromomethane	13	74-83-9	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Carbon disulfide	13	75-15-0	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Carbon tetrachloride	13	56-23-5	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Chlorobenzene	13	108-90-7	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Chloroethane	13	75-00-3	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Chloroform	13	67-66-3	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Chloromethane	13	74-87-3	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
cis-1,2-Dichloroethylene	13	156-59-2	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
cis-1,3-Dichloropropene	13	10061-01-5	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Dibromochloromethane	13	124-48-1	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Dibromomethane	13	74-95-3	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Dichlorodifluoromethane	13	75-71-8	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Di-isopropyl ether (DIPE)	13	108-20-3	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Ethylbenzene	13	100-41-4	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Hexachlorobutadiene	13	87-68-3	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS

Certificate of Analysis

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Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-24

Laboratory Sample ID: 16L0048-13

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	13	74-88-4	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Isopropylbenzene	13	98-82-8	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
m+p-Xylenes	13	179601-23-1	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Methylene chloride	13	75-09-2	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Methyl-t-butyl ether (MTBE)	13	1634-04-4	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Naphthalene	13	91-20-3	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
n-Butylbenzene	13	104-51-8	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
n-Propylbenzene	13	103-65-1	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
o-Xylene	13	95-47-6	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
sec-Butylbenzene	13	135-98-8	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Styrene	13	100-42-5	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
tert-Butylbenzene	13	98-06-6	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Tetrachloroethylene (PCE)	13	127-18-4	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Toluene	13	108-88-3	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
trans-1,2-Dichloroethylene	13	156-60-5	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
trans-1,3-Dichloropropene	13	10061-02-6	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Trichloroethylene	13	79-01-6	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Trichlorofluoromethane	13	75-69-4	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Vinyl acetate	13	108-05-4	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	500	50	ug/kg	KCS
Vinyl chloride	13	75-01-4	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		250	250	50	ug/kg	KCS
Xylenes, Total	13	1330-20-7	SW8260B	12/06/2016 13:32	12/06/2016 13:32	BLOD		749	749	50	ug/kg	KCS
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	13	92.2 %	80-120	12/06/2016 13:32	12/06/2016 13:32							
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	13	98.7 %	85-120	12/06/2016 13:32	12/06/2016 13:32							
<i>Surr: Dibromofluoromethane (Surr)</i>	13	95.9 %	80-119	12/06/2016 13:32	12/06/2016 13:32							



Air Water & Soil Laboratories, Inc.
 1941 Reymet Road
 Richmond, Virginia 23237
 (804)-358-8295 - Telephone
 (804)-358-8297 - Fax

Certificate of Analysis

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 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-24

Laboratory Sample ID: 16L0048-13

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
<i>Surr: Toluene-d8 (Surr)</i>	13	101 %	85-115	12/06/2016 13:32	12/06/2016 13:32							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
1,2,4,5-Tetrachlorobenzene	13	95-94-3	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
1,2,4-Trichlorobenzene	13	120-82-1	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
1,2-Dichlorobenzene	13	95-50-1	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
1,2-Diphenylhydrazine	13	122-66-7	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
1,3-Dichlorobenzene	13	541-73-1	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
1,4-Dichlorobenzene	13	106-46-7	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
1-Chloronaphthalene	13	90-13-1	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
1-Naphthylamine	13	134-32-7	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
2,3,4,6-Tetrachlorophenol	13	58-90-2	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
2,4,5-Trichlorophenol	13	95-95-4	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
2,4,6-Trichlorophenol	13	88-06-2	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
2,4-Dichlorophenol	13	120-83-2	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
2,4-Dimethylphenol	13	105-67-9	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
2,4-Dinitrophenol	13	51-28-5	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD	C	4060	4060	25	ug/kg	EWS
2,4-Dinitrotoluene	13	121-14-2	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD	C	4060	4060	25	ug/kg	EWS
2,6-Dichlorophenol	13	87-65-0	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD	C	4060	4060	25	ug/kg	EWS
2,6-Dinitrotoluene	13	606-20-2	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
2-Chloronaphthalene	13	91-58-7	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
2-Chlorophenol	13	95-57-8	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
2-Methylnaphthalene	13	91-57-6	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
2-Naphthylamine	13	91-59-8	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
2-Nitroaniline	13	88-74-4	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
2-Nitrophenol	13	88-75-5	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
3,3'-Dichlorobenzidine	13	91-94-1	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD	C	4060	4060	25	ug/kg	EWS

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Client Sample ID: **SB-24**

Laboratory Sample ID: **16L0048-13**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
3-Methylcholanthrene	13	56-49-5	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
3-Nitroaniline	13	99-09-2	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD	C	4060	4060	25	ug/kg	EWS
4,6-Dinitro-2-methylphenol	13	534-52-1	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD	C	4060	4060	25	ug/kg	EWS
4-Aminobiphenyl	13	92-67-1	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
4-Bromophenyl phenyl ether	13	101-55-3	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
4-Chloroaniline	13	106-47-8	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
4-Chlorophenyl phenyl ether	13	7005-72-3	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
4-Nitroaniline	13	100-01-6	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
4-Nitrophenol	13	100-02-7	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
7,12-Dimethylbenz (a) anthracene	13	57-97-6	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Acenaphthene	13	83-32-9	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Acenaphthylene	13	208-96-8	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Acetophenone	13	98-86-2	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Aniline	13	62-53-3	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Anthracene	13	120-12-7	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Benzidine	13	92-87-5	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD	C	4060	4060	25	ug/kg	EWS
Benzo (a) anthracene	13	56-55-3	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Benzo (a) pyrene	13	50-32-8	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Benzo (b) fluoranthene	13	205-99-2	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Benzo (g,h,i) perylene	13	191-24-2	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Benzo (k) fluoranthene	13	207-08-9	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Benzoic acid	13	65-85-0	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Benzyl alcohol	13	100-51-6	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
bis (2-Chloroethoxy) methane	13	111-91-1	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
bis (2-Chloroethyl) ether	13	111-44-4	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
2,2'-Oxybis (1-chloropropane)	13	108-60-1	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
bis (2-Ethylhexyl) phthalate	13	117-81-7	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Butyl benzyl phthalate	13	85-68-7	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Chrysene	13	218-01-9	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Dibenz (a,h) anthracene	13	53-70-3	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Dibenz (a,j) acridine	13	224-42-0	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Dibenzofuran	13	132-64-9	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Diethyl phthalate	13	84-66-2	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Dimethyl phthalate	13	131-11-3	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Di-n-butyl phthalate	13	84-74-2	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Di-n-octyl phthalate	13	117-84-0	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Diphenylamine	13	122-39-4	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Ethyl methanesulfonate	13	62-50-0	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Fluoranthene	13	206-44-0	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Fluorene	13	86-73-7	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Hexachlorobenzene	13	118-74-1	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Hexachlorobutadiene	13	87-68-3	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Hexachlorocyclopentadiene	13	77-47-4	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD	C	4060	4060	25	ug/kg	EWS
Hexachloroethane	13	67-72-1	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Indeno (1,2,3-cd) pyrene	13	193-39-5	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Isophorone	13	78-59-1	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
m+p-Cresols	13	84989-04-8	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Methyl methanesulfonate	13	66-27-3	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Naphthalene	13	91-20-3	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Nitrobenzene	13	98-95-3	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
n-Nitrosodimethylamine	13	62-75-9	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
n-Nitrosodi-n-butylamine	13	924-16-3	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
n-Nitrosodi-n-propylamine	13	621-64-7	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
n-Nitrosodiphenylamine	13	86-30-6	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
n-Nitrosopiperidine	13	100-75-4	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
o+m+p-Cresols	13	1319-77-3	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
o-Cresol	13	95-48-7	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
p-(Dimethylamino) azobenzene	13	60-11-7	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
p-Chloro-m-cresol	13	59-50-7	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Pentachloronitrobenzene (quintozene)	13	82-68-8	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Pentachlorophenol	13	87-86-5	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Phenacetin	13	62-44-2	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Phenanthrene	13	85-01-8	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Phenol	13	108-95-2	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Pronamide	13	23950-58-5	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Pyrene	13	129-00-0	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Pyridine	13	110-86-1	SW8270D	12/06/2016 09:59	12/07/2016 18:31	BLOD		4060	4060	25	ug/kg	EWS
Surr: 2,4,6-Tribromophenol (Surr)	13	73.6 %	35-125	12/06/2016 09:59	12/07/2016 18:31							
Surr: 2-Fluorobiphenyl (Surr)	13	%	45-105	12/06/2016 09:59	12/07/2016 18:31							DS
Surr: 2-Fluorophenol (Surr)	13	71.0 %	35-105	12/06/2016 09:59	12/07/2016 18:31							
Surr: Nitrobenzene-d5 (Surr)	13	51.6 %	35-100	12/06/2016 09:59	12/07/2016 18:31							
Surr: Phenol-d5 (Surr)	13	49.4 %	40-100	12/06/2016 09:59	12/07/2016 18:31							
Surr: p-Terphenyl-d14 (Surr)	13	52.6 %	30-125	12/06/2016 09:59	12/07/2016 18:31							

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-24

Laboratory Sample ID: 16L0048-13

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
PCB as Aroclor 1016	13	12674-11-2	SW8082A	12/05/2016 14:05	12/08/2016 01:21	BLOD		0.115	0.229	1	mg/kg dry	SKS
PCB as Aroclor 1221	13	11104-28-2	SW8082A	12/05/2016 14:05	12/08/2016 01:21	BLOD		0.115	0.229	1	mg/kg dry	SKS
PCB as Aroclor 1232	13	11141-16-5	SW8082A	12/05/2016 14:05	12/08/2016 01:21	BLOD		0.115	0.229	1	mg/kg dry	SKS
PCB as Aroclor 1242	13	53469-21-9	SW8082A	12/05/2016 14:05	12/08/2016 01:21	BLOD		0.115	0.229	1	mg/kg dry	SKS
PCB as Aroclor 1248	13	12672-29-6	SW8082A	12/05/2016 14:05	12/08/2016 01:21	BLOD		0.115	0.229	1	mg/kg dry	SKS
PCB as Aroclor 1254	13	11097-69-1	SW8082A	12/05/2016 14:05	12/08/2016 01:21	BLOD		0.115	0.229	1	mg/kg dry	SKS
PCB as Aroclor 1260	13	11096-82-5	SW8082A	12/05/2016 14:05	12/08/2016 01:21	BLOD		0.115	0.229	1	mg/kg dry	SKS
<i>Surr: DCB</i>	13	145 %	30-105	12/05/2016 14:05	12/08/2016 01:21							S
<i>Surr: TCMX</i>	13	80.0 %	30-105	12/05/2016 14:05	12/08/2016 01:21							
4,4'-DDD	13	72-54-8	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		10.8	10.8	1	ug/kg	SKS
4,4'-DDE	13	72-55-9	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		7.19	7.19	1	ug/kg	SKS
4,4'-DDT	13	50-29-3	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		7.19	7.19	1	ug/kg	SKS
Aldrin	13	309-00-2	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		3.59	3.59	1	ug/kg	SKS
alpha-BHC	13	319-84-6	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		3.59	3.59	1	ug/kg	SKS
beta-BHC	13	319-85-7	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		3.59	3.59	1	ug/kg	SKS
Chlordane	13	57-74-9	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		18.0	75.4	1	ug/kg	SKS
delta-BHC	13	319-86-8	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		7.19	7.19	1	ug/kg	SKS
Dieldrin	13	60-57-1	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		7.19	7.19	1	ug/kg	SKS
Endosulfan I	13	959-98-8	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		7.19	7.19	1	ug/kg	SKS
Endosulfan II	13	33213-65-9	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		10.8	10.8	1	ug/kg	SKS
Endosulfan sulfate	13	1031-07-8	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		3.59	3.59	1	ug/kg	SKS
Endrin	13	72-20-8	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		7.19	7.19	1	ug/kg	SKS
Endrin aldehyde	13	7421-93-4	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		14.4	14.4	1	ug/kg	SKS
Endrin ketone	13	53494-70-5	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		3.59	3.59	1	ug/kg	SKS

Certificate of Analysis

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Client Sample ID: SB-24

Laboratory Sample ID: 16L0048-13

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
gamma-BHC (Lindane)	13	58-89-9	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		3.59	3.59	1	ug/kg	SKS
Heptachlor	13	76-44-8	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		3.59	3.59	1	ug/kg	SKS
Heptachlor epoxide	13	1024-57-3	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		3.59	71.9	1	ug/kg	SKS
Methoxychlor	13	72-43-5	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		3.59	71.9	1	ug/kg	SKS
Mirex	13	2385-85-5	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		10.8	10.8	1	ug/kg	SKS
Toxaphene	13	8001-35-2	SW8081B	12/05/2016 14:05	12/08/2016 01:21	BLOD		18.0	75.4	1	ug/kg	SKS
Surr: TCMX	13	75.0 %	30-105	12/05/2016 14:05	12/08/2016 01:21							
Surr: DCB	13	135 %	30-105	12/05/2016 14:05	12/08/2016 01:21							S

Certificate of Analysis

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Wet Chemistry Analysis												
Cyanide	13	57-12-5	SW9012B	12/06/2016 16:42	12/06/2016 16:42	BLOD		0.99	0.99	1	mg/kg	BBP
Percent Solids	13	NA	SM18 2540G	12/07/2016 10:00	12/08/2016 09:52	78.4		0.10	0.10	1	%	RCV
pH	13	NA	SW9045D	12/02/2016 17:23	12/02/2016 17:23	7.41		0.00	0.00	1	SU	DLF

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Client Sample ID: SB-25

Laboratory Sample ID: 16L0048-14

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	14	7440-22-4	SW6010C	12/05/2016 08:45	12/05/2016 14:33	BLOD		0.489	0.500	1	mg/kg	CWO
Arsenic	14	7440-38-2	SW6010C	12/05/2016 08:45	12/05/2016 14:33	6.46		0.978	1.00	1	mg/kg	CWO
Beryllium	14RE1	7440-41-7	SW6010C	12/05/2016 08:45	12/05/2016 16:48	BLOD		0.978	0.978	5	mg/kg	CWO
Cadmium	14	7440-43-9	SW6010C	12/05/2016 08:45	12/05/2016 14:33	1.46		0.196	0.200	1	mg/kg	CWO
Chromium	14	7440-47-3	SW6010C	12/05/2016 08:45	12/05/2016 14:33	15.1		0.489	0.500	1	mg/kg	CWO
Copper	14	7440-50-8	SW6010C	12/05/2016 08:45	12/05/2016 14:33	23.5		0.489	2.50	1	mg/kg	CWO
Mercury	14RE1	7439-97-6	SW7471B	12/05/2016 12:00	12/06/2016 13:03	0.387		0.147	0.147	20	mg/kg	MWL
Nickel	14	7440-02-0	SW6010C	12/05/2016 08:45	12/05/2016 14:33	8.77		0.489	0.500	1	mg/kg	CWO
Lead	14	7439-92-1	SW6010C	12/05/2016 08:45	12/05/2016 14:33	94.7		0.489	0.500	1	mg/kg	CWO
Antimony	14	7440-36-0	SW6010C	12/05/2016 08:45	12/05/2016 14:33	BLOD		4.89	5.00	1	mg/kg	CWO
Selenium	14RE1	7782-49-2	SW6010C	12/05/2016 08:45	12/05/2016 16:48	BLOD		12.2	12.2	5	mg/kg	CWO
Thallium	14	7440-28-0	SW6010C	12/05/2016 08:45	12/05/2016 14:33	BLOD		2.44	2.50	1	mg/kg	CWO
Zinc	14	7440-66-6	SW6010C	12/05/2016 08:45	12/05/2016 14:33	61.7		0.489	0.500	1	mg/kg	CWO

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Client Sample ID: **SB-25**

Laboratory Sample ID: **16L0048-14**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	14	630-20-6	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,1,1-Trichloroethane	14	71-55-6	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,1,2,2-Tetrachloroethane	14	79-34-5	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,1,2-Trichloroethane	14	79-00-5	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,1-Dichloroethane	14	75-34-3	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,1-Dichloroethylene	14	75-35-4	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,1-Dichloropropene	14	563-58-6	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,2,3-Trichlorobenzene	14	87-61-6	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,2,3-Trichloropropane	14	96-18-4	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,2,4-Trichlorobenzene	14	120-82-1	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,2,4-Trimethylbenzene	14	95-63-6	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,2-Dibromo-3-chloropropane (DBCP)	14	96-12-8	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,2-Dibromoethane (EDB)	14	106-93-4	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,2-Dichlorobenzene	14	95-50-1	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,2-Dichloroethane	14	107-06-2	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,2-Dichloropropane	14	78-87-5	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,3,5-Trimethylbenzene	14	108-67-8	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,3-Dichlorobenzene	14	541-73-1	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,3-Dichloropropane	14	142-28-9	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
1,4-Dichlorobenzene	14	106-46-7	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
2,2-Dichloropropane	14	594-20-7	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
2-Butanone (MEK)	14	78-93-3	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
2-Chlorotoluene	14	95-49-8	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
2-Hexanone (MBK)	14	591-78-6	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS

Certificate of Analysis

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Client Sample ID: SB-25

Laboratory Sample ID: 16L0048-14

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Chlorotoluene	14	106-43-4	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
4-Isopropyltoluene	14	99-87-6	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
4-Methyl-2-pentanone (MIBK)	14	108-10-1	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Acetone	14	67-64-1	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		491	491	50	ug/kg	KCS
Benzene	14	71-43-2	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Bromobenzene	14	108-86-1	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Bromochloromethane	14	74-97-5	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Bromodichloromethane	14	75-27-4	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Bromoform	14	75-25-2	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Bromomethane	14	74-83-9	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Carbon disulfide	14	75-15-0	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Carbon tetrachloride	14	56-23-5	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Chlorobenzene	14	108-90-7	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Chloroethane	14	75-00-3	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Chloroform	14	67-66-3	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Chloromethane	14	74-87-3	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
cis-1,2-Dichloroethylene	14	156-59-2	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
cis-1,3-Dichloropropene	14	10061-01-5	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Dibromochloromethane	14	124-48-1	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Dibromomethane	14	74-95-3	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Dichlorodifluoromethane	14	75-71-8	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Di-isopropyl ether (DIPE)	14	108-20-3	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Ethylbenzene	14	100-41-4	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Hexachlorobutadiene	14	87-68-3	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS

Certificate of Analysis

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Client Sample ID: SB-25

Laboratory Sample ID: 16L0048-14

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	14	74-88-4	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Isopropylbenzene	14	98-82-8	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
m+p-Xylenes	14	179601-23-1	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Methylene chloride	14	75-09-2	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Methyl-t-butyl ether (MTBE)	14	1634-04-4	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Naphthalene	14	91-20-3	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
n-Butylbenzene	14	104-51-8	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
n-Propylbenzene	14	103-65-1	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
o-Xylene	14	95-47-6	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
sec-Butylbenzene	14	135-98-8	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Styrene	14	100-42-5	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
tert-Butylbenzene	14	98-06-6	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Tetrachloroethylene (PCE)	14	127-18-4	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Toluene	14	108-88-3	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
trans-1,2-Dichloroethylene	14	156-60-5	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
trans-1,3-Dichloropropene	14	10061-02-6	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Trichloroethylene	14	79-01-6	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Trichlorofluoromethane	14	75-69-4	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Vinyl acetate	14	108-05-4	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	491	50	ug/kg	KCS
Vinyl chloride	14	75-01-4	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		245	245	50	ug/kg	KCS
Xylenes, Total	14	1330-20-7	SW8260B	12/06/2016 13:56	12/06/2016 13:56	BLOD		736	736	50	ug/kg	KCS
Surr: 1,2-Dichloroethane-d4 (Surr)	14	96.6 %	80-120	12/06/2016 13:56	12/06/2016 13:56							
Surr: 4-Bromofluorobenzene (Surr)	14	101 %	85-120	12/06/2016 13:56	12/06/2016 13:56							
Surr: Dibromofluoromethane (Surr)	14	93.2 %	80-119	12/06/2016 13:56	12/06/2016 13:56							

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-25

Laboratory Sample ID: 16L0048-14

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
<i>Surr: Toluene-d8 (Surr)</i>	14	99.2 %	85-115	12/06/2016 13:56	12/06/2016 13:56							

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Client Sample ID: SB-25

Laboratory Sample ID: 16L0048-14

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
1,2,4,5-Tetrachlorobenzene	14	95-94-3	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
1,2,4-Trichlorobenzene	14	120-82-1	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
1,2-Dichlorobenzene	14	95-50-1	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
1,2-Diphenylhydrazine	14	122-66-7	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
1,3-Dichlorobenzene	14	541-73-1	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
1,4-Dichlorobenzene	14	106-46-7	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
1-Chloronaphthalene	14	90-13-1	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
1-Naphthylamine	14	134-32-7	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
2,3,4,6-Tetrachlorophenol	14	58-90-2	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
2,4,5-Trichlorophenol	14	95-95-4	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
2,4,6-Trichlorophenol	14	88-06-2	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
2,4-Dichlorophenol	14	120-83-2	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
2,4-Dimethylphenol	14	105-67-9	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
2,4-Dinitrophenol	14	51-28-5	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD	C	4140	4140	25	ug/kg	EWS
2,4-Dinitrotoluene	14	121-14-2	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD	C	4140	4140	25	ug/kg	EWS
2,6-Dichlorophenol	14	87-65-0	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD	C	4140	4140	25	ug/kg	EWS
2,6-Dinitrotoluene	14	606-20-2	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
2-Chloronaphthalene	14	91-58-7	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
2-Chlorophenol	14	95-57-8	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
2-Methylnaphthalene	14	91-57-6	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
2-Naphthylamine	14	91-59-8	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
2-Nitroaniline	14	88-74-4	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
2-Nitrophenol	14	88-75-5	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
3,3'-Dichlorobenzidine	14	91-94-1	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD	C	4140	4140	25	ug/kg	EWS

Certificate of Analysis

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Client Sample ID: SB-25

Laboratory Sample ID: 16L0048-14

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
3-Methylcholanthrene	14	56-49-5	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
3-Nitroaniline	14	99-09-2	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD	C	4140	4140	25	ug/kg	EWS
4,6-Dinitro-2-methylphenol	14	534-52-1	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD	C	4140	4140	25	ug/kg	EWS
4-Aminobiphenyl	14	92-67-1	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
4-Bromophenyl phenyl ether	14	101-55-3	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
4-Chloroaniline	14	106-47-8	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
4-Chlorophenyl phenyl ether	14	7005-72-3	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
4-Nitroaniline	14	100-01-6	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
4-Nitrophenol	14	100-02-7	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
7,12-Dimethylbenz (a) anthracene	14	57-97-6	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Acenaphthene	14	83-32-9	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Acenaphthylene	14	208-96-8	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Acetophenone	14	98-86-2	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Aniline	14	62-53-3	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Anthracene	14	120-12-7	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Benzidine	14	92-87-5	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD	C	4140	4140	25	ug/kg	EWS
Benzo (a) anthracene	14	56-55-3	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Benzo (a) pyrene	14	50-32-8	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Benzo (b) fluoranthene	14	205-99-2	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Benzo (g,h,i) perylene	14	191-24-2	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Benzo (k) fluoranthene	14	207-08-9	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Benzoic acid	14	65-85-0	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Benzyl alcohol	14	100-51-6	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
bis (2-Chloroethoxy) methane	14	111-91-1	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS

Certificate of Analysis

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Client Sample ID: SB-25

Laboratory Sample ID: 16L0048-14

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
bis (2-Chloroethyl) ether	14	111-44-4	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
2,2'-Oxybis (1-chloropropane)	14	108-60-1	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
bis (2-Ethylhexyl) phthalate	14	117-81-7	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Butyl benzyl phthalate	14	85-68-7	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Chrysene	14	218-01-9	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Dibenz (a,h) anthracene	14	53-70-3	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Dibenz (a,j) acridine	14	224-42-0	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Dibenzofuran	14	132-64-9	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Diethyl phthalate	14	84-66-2	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Dimethyl phthalate	14	131-11-3	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Di-n-butyl phthalate	14	84-74-2	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Di-n-octyl phthalate	14	117-84-0	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Diphenylamine	14	122-39-4	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Ethyl methanesulfonate	14	62-50-0	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Fluoranthene	14	206-44-0	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Fluorene	14	86-73-7	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Hexachlorobenzene	14	118-74-1	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Hexachlorobutadiene	14	87-68-3	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Hexachlorocyclopentadiene	14	77-47-4	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD	C	4140	4140	25	ug/kg	EWS
Hexachloroethane	14	67-72-1	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Indeno (1,2,3-cd) pyrene	14	193-39-5	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Isophorone	14	78-59-1	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
m+p-Cresols	14	84989-04-8	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Methyl methanesulfonate	14	66-27-3	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS

Certificate of Analysis

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Client Sample ID: SB-25

Laboratory Sample ID: 16L0048-14

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Naphthalene	14	91-20-3	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Nitrobenzene	14	98-95-3	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
n-Nitrosodimethylamine	14	62-75-9	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
n-Nitrosodi-n-butylamine	14	924-16-3	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
n-Nitrosodi-n-propylamine	14	621-64-7	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
n-Nitrosodiphenylamine	14	86-30-6	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
n-Nitrosopiperidine	14	100-75-4	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
o+m+p-Cresols	14	1319-77-3	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
o-Cresol	14	95-48-7	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
p-(Dimethylamino) azobenzene	14	60-11-7	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
p-Chloro-m-cresol	14	59-50-7	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Pentachloronitrobenzene (quintozene)	14	82-68-8	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Pentachlorophenol	14	87-86-5	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Phenacetin	14	62-44-2	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Phenanthrene	14	85-01-8	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Phenol	14	108-95-2	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Pronamide	14	23950-58-5	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Pyrene	14	129-00-0	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Pyridine	14	110-86-1	SW8270D	12/06/2016 09:59	12/07/2016 19:44	BLOD		4140	4140	25	ug/kg	EWS
Surr: 2,4,6-Tribromophenol (Surr)	14	67.0 %	35-125	12/06/2016 09:59	12/07/2016 19:44							
Surr: 2-Fluorobiphenyl (Surr)	14	%	45-105	12/06/2016 09:59	12/07/2016 19:44							DS
Surr: 2-Fluorophenol (Surr)	14	63.7 %	35-105	12/06/2016 09:59	12/07/2016 19:44							
Surr: Nitrobenzene-d5 (Surr)	14	38.9 %	35-100	12/06/2016 09:59	12/07/2016 19:44							
Surr: Phenol-d5 (Surr)	14	40.9 %	40-100	12/06/2016 09:59	12/07/2016 19:44							
Surr: p-Terphenyl-d14 (Surr)	14	43.4 %	30-125	12/06/2016 09:59	12/07/2016 19:44							

Certificate of Analysis

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Laboratory Sample ID: 16L0048-14

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
PCB as Aroclor 1016	14	12674-11-2	SW8082A	12/05/2016 14:05	12/08/2016 01:40	BLOD		0.111	0.221	1	mg/kg dry	SKS
PCB as Aroclor 1221	14	11104-28-2	SW8082A	12/05/2016 14:05	12/08/2016 01:40	BLOD		0.111	0.221	1	mg/kg dry	SKS
PCB as Aroclor 1232	14	11141-16-5	SW8082A	12/05/2016 14:05	12/08/2016 01:40	BLOD		0.111	0.221	1	mg/kg dry	SKS
PCB as Aroclor 1242	14	53469-21-9	SW8082A	12/05/2016 14:05	12/08/2016 01:40	BLOD		0.111	0.221	1	mg/kg dry	SKS
PCB as Aroclor 1248	14	12672-29-6	SW8082A	12/05/2016 14:05	12/08/2016 01:40	BLOD		0.111	0.221	1	mg/kg dry	SKS
PCB as Aroclor 1254	14	11097-69-1	SW8082A	12/05/2016 14:05	12/08/2016 01:40	BLOD		0.111	0.221	1	mg/kg dry	SKS
PCB as Aroclor 1260	14	11096-82-5	SW8082A	12/05/2016 14:05	12/08/2016 01:40	BLOD		0.111	0.221	1	mg/kg dry	SKS
Surr: DCB	14	140 %	30-105	12/05/2016 14:05	12/08/2016 01:40							S
Surr: TCMX	14	130 %	30-105	12/05/2016 14:05	12/08/2016 01:40							S
4,4'-DDD	14	72-54-8	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		10.8	10.8	1	ug/kg	SKS
4,4'-DDE	14	72-55-9	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		7.19	7.19	1	ug/kg	SKS
4,4'-DDT	14	50-29-3	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		7.19	7.19	1	ug/kg	SKS
Aldrin	14	309-00-2	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		3.59	3.59	1	ug/kg	SKS
alpha-BHC	14	319-84-6	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		3.59	3.59	1	ug/kg	SKS
beta-BHC	14	319-85-7	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		3.59	3.59	1	ug/kg	SKS
Chlordane	14	57-74-9	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		18.0	75.4	1	ug/kg	SKS
delta-BHC	14	319-86-8	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		7.19	7.19	1	ug/kg	SKS
Dieldrin	14	60-57-1	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		7.19	7.19	1	ug/kg	SKS
Endosulfan I	14	959-98-8	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		7.19	7.19	1	ug/kg	SKS
Endosulfan II	14	33213-65-9	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		10.8	10.8	1	ug/kg	SKS
Endosulfan sulfate	14	1031-07-8	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		3.59	3.59	1	ug/kg	SKS
Endrin	14	72-20-8	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		7.19	7.19	1	ug/kg	SKS
Endrin aldehyde	14	7421-93-4	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		14.4	14.4	1	ug/kg	SKS
Endrin ketone	14	53494-70-5	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		3.59	3.59	1	ug/kg	SKS

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-25

Laboratory Sample ID: 16L0048-14

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
gamma-BHC (Lindane)	14	58-89-9	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		3.59	3.59	1	ug/kg	SKS
Heptachlor	14	76-44-8	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		3.59	3.59	1	ug/kg	SKS
Heptachlor epoxide	14	1024-57-3	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		3.59	71.9	1	ug/kg	SKS
Methoxychlor	14	72-43-5	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		3.59	71.9	1	ug/kg	SKS
Mirex	14	2385-85-5	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		10.8	10.8	1	ug/kg	SKS
Toxaphene	14	8001-35-2	SW8081B	12/05/2016 14:05	12/08/2016 01:40	BLOD		18.0	75.4	1	ug/kg	SKS
Surr: TCMX	14	65.0 %	30-105	12/05/2016 14:05	12/08/2016 01:40							
Surr: DCB	14	75.0 %	30-105	12/05/2016 14:05	12/08/2016 01:40							

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Laboratory Sample ID: 16L0048-14

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Wet Chemistry Analysis												
Cyanide	14	57-12-5	SW9012B	12/06/2016 16:45	12/06/2016 16:45	BLOD		1.00	1.00	1	mg/kg	BBP
Percent Solids	14	NA	SM18 2540G	12/07/2016 10:00	12/08/2016 09:52	81.2		0.10	0.10	1	%	RCV
pH	14	NA	SW9045D	12/02/2016 17:25	12/02/2016 17:25	7.18		0.00	0.00	1	SU	DLF

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Client Sample ID: SB-26

Laboratory Sample ID: 16L0048-15

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	15	7440-22-4	SW6010C	12/05/2016 08:45	12/05/2016 14:35	BLOD		0.484	0.500	1	mg/kg	CWO
Arsenic	15	7440-38-2	SW6010C	12/05/2016 08:45	12/05/2016 14:35	7.68		0.969	1.00	1	mg/kg	CWO
Beryllium	15RE1	7440-41-7	SW6010C	12/05/2016 08:45	12/05/2016 16:50	BLOD		0.969	0.969	5	mg/kg	CWO
Cadmium	15	7440-43-9	SW6010C	12/05/2016 08:45	12/05/2016 14:35	2.11		0.194	0.200	1	mg/kg	CWO
Chromium	15	7440-47-3	SW6010C	12/05/2016 08:45	12/05/2016 14:35	17.5		0.484	0.500	1	mg/kg	CWO
Copper	15	7440-50-8	SW6010C	12/05/2016 08:45	12/05/2016 14:35	25.7		0.484	2.50	1	mg/kg	CWO
Mercury	15	7439-97-6	SW7471B	12/05/2016 12:00	12/06/2016 12:14	0.168		0.007	0.008	1	mg/kg	MWL
Nickel	15	7440-02-0	SW6010C	12/05/2016 08:45	12/05/2016 14:35	8.97		0.484	0.500	1	mg/kg	CWO
Lead	15	7439-92-1	SW6010C	12/05/2016 08:45	12/05/2016 14:35	56.6		0.484	0.500	1	mg/kg	CWO
Antimony	15	7440-36-0	SW6010C	12/05/2016 08:45	12/05/2016 14:35	BLOD		4.84	5.00	1	mg/kg	CWO
Selenium	15RE1	7782-49-2	SW6010C	12/05/2016 08:45	12/05/2016 16:50	BLOD		12.1	12.1	5	mg/kg	CWO
Thallium	15	7440-28-0	SW6010C	12/05/2016 08:45	12/05/2016 14:35	BLOD		2.42	2.50	1	mg/kg	CWO
Zinc	15	7440-66-6	SW6010C	12/05/2016 08:45	12/05/2016 14:35	282		0.484	0.500	1	mg/kg	CWO

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Client Sample ID: SB-26

Laboratory Sample ID: 16L0048-15

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	15	630-20-6	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,1,1-Trichloroethane	15	71-55-6	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,1,2,2-Tetrachloroethane	15	79-34-5	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,1,2-Trichloroethane	15	79-00-5	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,1-Dichloroethane	15	75-34-3	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,1-Dichloroethylene	15	75-35-4	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,1-Dichloropropene	15	563-58-6	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,2,3-Trichlorobenzene	15	87-61-6	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,2,3-Trichloropropane	15	96-18-4	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,2,4-Trichlorobenzene	15	120-82-1	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,2,4-Trimethylbenzene	15	95-63-6	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,2-Dibromo-3-chloropropane (DBCP)	15	96-12-8	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,2-Dibromoethane (EDB)	15	106-93-4	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,2-Dichlorobenzene	15	95-50-1	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,2-Dichloroethane	15	107-06-2	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,2-Dichloropropane	15	78-87-5	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,3,5-Trimethylbenzene	15	108-67-8	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,3-Dichlorobenzene	15	541-73-1	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,3-Dichloropropane	15	142-28-9	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
1,4-Dichlorobenzene	15	106-46-7	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
2,2-Dichloropropane	15	594-20-7	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
2-Butanone (MEK)	15	78-93-3	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
2-Chlorotoluene	15	95-49-8	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
2-Hexanone (MBK)	15	591-78-6	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS

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Client Sample ID: SB-26

Laboratory Sample ID: 16L0048-15

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Chlorotoluene	15	106-43-4	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
4-Isopropyltoluene	15	99-87-6	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
4-Methyl-2-pentanone (MIBK)	15	108-10-1	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Acetone	15	67-64-1	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		494	494	50	ug/kg	KCS
Benzene	15	71-43-2	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Bromobenzene	15	108-86-1	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Bromochloromethane	15	74-97-5	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Bromodichloromethane	15	75-27-4	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Bromoform	15	75-25-2	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Bromomethane	15	74-83-9	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Carbon disulfide	15	75-15-0	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Carbon tetrachloride	15	56-23-5	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Chlorobenzene	15	108-90-7	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Chloroethane	15	75-00-3	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Chloroform	15	67-66-3	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Chloromethane	15	74-87-3	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
cis-1,2-Dichloroethylene	15	156-59-2	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
cis-1,3-Dichloropropene	15	10061-01-5	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Dibromochloromethane	15	124-48-1	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Dibromomethane	15	74-95-3	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Dichlorodifluoromethane	15	75-71-8	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Di-isopropyl ether (DIPE)	15	108-20-3	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Ethylbenzene	15	100-41-4	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Hexachlorobutadiene	15	87-68-3	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS

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Laboratory Sample ID: 16L0048-15

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	15	74-88-4	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Isopropylbenzene	15	98-82-8	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
m+p-Xylenes	15	179601-23-1	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Methylene chloride	15	75-09-2	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Methyl-t-butyl ether (MTBE)	15	1634-04-4	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Naphthalene	15	91-20-3	SW8260B	12/06/2016 14:19	12/06/2016 14:19	1120		247	247	50	ug/kg	KCS
n-Butylbenzene	15	104-51-8	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
n-Propylbenzene	15	103-65-1	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
o-Xylene	15	95-47-6	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
sec-Butylbenzene	15	135-98-8	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Styrene	15	100-42-5	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
tert-Butylbenzene	15	98-06-6	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Tetrachloroethylene (PCE)	15	127-18-4	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Toluene	15	108-88-3	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
trans-1,2-Dichloroethylene	15	156-60-5	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
trans-1,3-Dichloropropene	15	10061-02-6	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Trichloroethylene	15	79-01-6	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Trichlorofluoromethane	15	75-69-4	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Vinyl acetate	15	108-05-4	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	494	50	ug/kg	KCS
Vinyl chloride	15	75-01-4	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		247	247	50	ug/kg	KCS
Xylenes, Total	15	1330-20-7	SW8260B	12/06/2016 14:19	12/06/2016 14:19	BLOD		740	740	50	ug/kg	KCS
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	15	99.8 %	80-120	12/06/2016 14:19	12/06/2016 14:19							
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	15	104 %	85-120	12/06/2016 14:19	12/06/2016 14:19							
<i>Surr: Dibromofluoromethane (Surr)</i>	15	94.5 %	80-119	12/06/2016 14:19	12/06/2016 14:19							



Certificate of Analysis

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Laboratory Sample ID: 16L0048-15

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
<i>Surr: Toluene-d8 (Surr)</i>	15	101 %	85-115	12/06/2016 14:19	12/06/2016 14:19							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
1,2,4,5-Tetrachlorobenzene	15	95-94-3	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
1,2,4-Trichlorobenzene	15	120-82-1	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
1,2-Dichlorobenzene	15	95-50-1	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
1,2-Diphenylhydrazine	15	122-66-7	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
1,3-Dichlorobenzene	15	541-73-1	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
1,4-Dichlorobenzene	15	106-46-7	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
1-Chloronaphthalene	15	90-13-1	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
1-Naphthylamine	15	134-32-7	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
2,3,4,6-Tetrachlorophenol	15	58-90-2	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
2,4,5-Trichlorophenol	15	95-95-4	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
2,4,6-Trichlorophenol	15	88-06-2	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
2,4-Dichlorophenol	15	120-83-2	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
2,4-Dimethylphenol	15	105-67-9	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
2,4-Dinitrophenol	15	51-28-5	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD	C	3830	3830	25	ug/kg	EWS
2,4-Dinitrotoluene	15	121-14-2	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD	C	3830	3830	25	ug/kg	EWS
2,6-Dichlorophenol	15	87-65-0	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD	C	3830	3830	25	ug/kg	EWS
2,6-Dinitrotoluene	15	606-20-2	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
2-Chloronaphthalene	15	91-58-7	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
2-Chlorophenol	15	95-57-8	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
2-Methylnaphthalene	15	91-57-6	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
2-Naphthylamine	15	91-59-8	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
2-Nitroaniline	15	88-74-4	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
2-Nitrophenol	15	88-75-5	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
3,3'-Dichlorobenzidine	15	91-94-1	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD	C	3830	3830	25	ug/kg	EWS

Certificate of Analysis

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 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-26

Laboratory Sample ID: 16L0048-15

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
3-Methylcholanthrene	15	56-49-5	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
3-Nitroaniline	15	99-09-2	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD	C	3830	3830	25	ug/kg	EWS
4,6-Dinitro-2-methylphenol	15	534-52-1	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD	C	3830	3830	25	ug/kg	EWS
4-Aminobiphenyl	15	92-67-1	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
4-Bromophenyl phenyl ether	15	101-55-3	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
4-Chloroaniline	15	106-47-8	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
4-Chlorophenyl phenyl ether	15	7005-72-3	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
4-Nitroaniline	15	100-01-6	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
4-Nitrophenol	15	100-02-7	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
7,12-Dimethylbenz (a) anthracene	15	57-97-6	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Acenaphthene	15	83-32-9	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Acenaphthylene	15	208-96-8	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Acetophenone	15	98-86-2	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Aniline	15	62-53-3	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Anthracene	15	120-12-7	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Benzidine	15	92-87-5	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD	C	3830	3830	25	ug/kg	EWS
Benzo (a) anthracene	15	56-55-3	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Benzo (a) pyrene	15	50-32-8	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Benzo (b) fluoranthene	15	205-99-2	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Benzo (g,h,i) perylene	15	191-24-2	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Benzo (k) fluoranthene	15	207-08-9	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Benzoic acid	15	65-85-0	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Benzyl alcohol	15	100-51-6	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
bis (2-Chloroethoxy) methane	15	111-91-1	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS

Certificate of Analysis

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Client Sample ID: SB-26

Laboratory Sample ID: 16L0048-15

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
bis (2-Chloroethyl) ether	15	111-44-4	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
2,2'-Oxybis (1-chloropropane)	15	108-60-1	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
bis (2-Ethylhexyl) phthalate	15	117-81-7	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Butyl benzyl phthalate	15	85-68-7	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Chrysene	15	218-01-9	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Dibenz (a,h) anthracene	15	53-70-3	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Dibenz (a,j) acridine	15	224-42-0	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Dibenzofuran	15	132-64-9	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Diethyl phthalate	15	84-66-2	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Dimethyl phthalate	15	131-11-3	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Di-n-butyl phthalate	15	84-74-2	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Di-n-octyl phthalate	15	117-84-0	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Diphenylamine	15	122-39-4	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Ethyl methanesulfonate	15	62-50-0	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Fluoranthene	15	206-44-0	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Fluorene	15	86-73-7	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Hexachlorobenzene	15	118-74-1	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Hexachlorobutadiene	15	87-68-3	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Hexachlorocyclopentadiene	15	77-47-4	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD	C	3830	3830	25	ug/kg	EWS
Hexachloroethane	15	67-72-1	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Indeno (1,2,3-cd) pyrene	15	193-39-5	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Isophorone	15	78-59-1	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
m+p-Cresols	15	84989-04-8	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Methyl methanesulfonate	15	66-27-3	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS

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Client Sample ID: SB-26

Laboratory Sample ID: 16L0048-15

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Naphthalene	15	91-20-3	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Nitrobenzene	15	98-95-3	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
n-Nitrosodimethylamine	15	62-75-9	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
n-Nitrosodi-n-butylamine	15	924-16-3	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
n-Nitrosodi-n-propylamine	15	621-64-7	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
n-Nitrosodiphenylamine	15	86-30-6	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
n-Nitrosopiperidine	15	100-75-4	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
o+m+p-Cresols	15	1319-77-3	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
o-Cresol	15	95-48-7	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
p-(Dimethylamino) azobenzene	15	60-11-7	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
p-Chloro-m-cresol	15	59-50-7	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Pentachloronitrobenzene (quintozene)	15	82-68-8	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Pentachlorophenol	15	87-86-5	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Phenacetin	15	62-44-2	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Phenanthrene	15	85-01-8	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Phenol	15	108-95-2	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Pronamide	15	23950-58-5	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
Pyrene	15	129-00-0	SW8270D	12/06/2016 09:59	12/07/2016 21:34	6610		3830	3830	25	ug/kg	EWS
Pyridine	15	110-86-1	SW8270D	12/06/2016 09:59	12/07/2016 21:34	BLOD		3830	3830	25	ug/kg	EWS
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	15	70.7 %	35-125	12/06/2016 09:59	12/07/2016 21:34							
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	15	%	45-105	12/06/2016 09:59	12/07/2016 21:34							DS
<i>Surr: 2-Fluorophenol (Surr)</i>	15	56.5 %	35-105	12/06/2016 09:59	12/07/2016 21:34							
<i>Surr: Nitrobenzene-d5 (Surr)</i>	15	33.6 %	35-100	12/06/2016 09:59	12/07/2016 21:34							DS
<i>Surr: Phenol-d5 (Surr)</i>	15	33.2 %	40-100	12/06/2016 09:59	12/07/2016 21:34							DS
<i>Surr: p-Terphenyl-d14 (Surr)</i>	15	46.7 %	30-125	12/06/2016 09:59	12/07/2016 21:34							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
PCB as Aroclor 1016	15	12674-11-2	SW8082A	12/05/2016 14:05	12/08/2016 01:59	BLOD		0.116	0.232	1	mg/kg dry	SKS
PCB as Aroclor 1221	15	11104-28-2	SW8082A	12/05/2016 14:05	12/08/2016 01:59	BLOD		0.116	0.232	1	mg/kg dry	SKS
PCB as Aroclor 1232	15	11141-16-5	SW8082A	12/05/2016 14:05	12/08/2016 01:59	BLOD		0.116	0.232	1	mg/kg dry	SKS
PCB as Aroclor 1242	15	53469-21-9	SW8082A	12/05/2016 14:05	12/08/2016 01:59	BLOD		0.116	0.232	1	mg/kg dry	SKS
PCB as Aroclor 1248	15	12672-29-6	SW8082A	12/05/2016 14:05	12/08/2016 01:59	BLOD		0.116	0.232	1	mg/kg dry	SKS
PCB as Aroclor 1254	15	11097-69-1	SW8082A	12/05/2016 14:05	12/08/2016 01:59	BLOD		0.116	0.232	1	mg/kg dry	SKS
PCB as Aroclor 1260	15	11096-82-5	SW8082A	12/05/2016 14:05	12/08/2016 01:59	BLOD		0.116	0.232	1	mg/kg dry	SKS
Surr: DCB	15	205 %	30-105	12/05/2016 14:05	12/08/2016 01:59							S
Surr: TCMX	15	220 %	30-105	12/05/2016 14:05	12/08/2016 01:59							S
4,4'-DDD	15	72-54-8	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		11.4	11.4	1	ug/kg	SKS
4,4'-DDE	15	72-55-9	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		7.59	7.59	1	ug/kg	SKS
4,4'-DDT	15	50-29-3	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		7.59	7.59	1	ug/kg	SKS
Aldrin	15	309-00-2	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		3.80	3.80	1	ug/kg	SKS
alpha-BHC	15	319-84-6	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		3.80	3.80	1	ug/kg	SKS
beta-BHC	15	319-85-7	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		3.80	3.80	1	ug/kg	SKS
Chlordane	15	57-74-9	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		19.0	79.7	1	ug/kg	SKS
delta-BHC	15	319-86-8	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		7.59	7.59	1	ug/kg	SKS
Dieldrin	15	60-57-1	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		7.59	7.59	1	ug/kg	SKS
Endosulfan I	15	959-98-8	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		7.59	7.59	1	ug/kg	SKS
Endosulfan II	15	33213-65-9	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		11.4	11.4	1	ug/kg	SKS
Endosulfan sulfate	15	1031-07-8	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		3.80	3.80	1	ug/kg	SKS
Endrin	15	72-20-8	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		7.59	7.59	1	ug/kg	SKS
Endrin aldehyde	15	7421-93-4	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		15.2	15.2	1	ug/kg	SKS
Endrin ketone	15	53494-70-5	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		3.80	3.80	1	ug/kg	SKS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
gamma-BHC (Lindane)	15	58-89-9	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		3.80	3.80	1	ug/kg	SKS
Heptachlor	15	76-44-8	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		3.80	3.80	1	ug/kg	SKS
Heptachlor epoxide	15	1024-57-3	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		3.80	75.9	1	ug/kg	SKS
Methoxychlor	15	72-43-5	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		3.80	75.9	1	ug/kg	SKS
Mirex	15	2385-85-5	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		11.4	11.4	1	ug/kg	SKS
Toxaphene	15	8001-35-2	SW8081B	12/05/2016 14:05	12/08/2016 01:59	BLOD		19.0	79.7	1	ug/kg	SKS
Surr: TCMX	15	80.0 %	30-105	12/05/2016 14:05	12/08/2016 01:59							
Surr: DCB	15	100 %	30-105	12/05/2016 14:05	12/08/2016 01:59							

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Wet Chemistry Analysis												
Cyanide	15	57-12-5	SW9012B	12/06/2016 16:48	12/06/2016 16:48	5.56		0.99	0.99	1	mg/kg	BBP
Percent Solids	15	NA	SM18 2540G	12/07/2016 10:00	12/08/2016 09:52	82.0		0.10	0.10	1	%	RCV
pH	15	NA	SW9045D	12/02/2016 17:27	12/02/2016 17:27	8.09		0.00	0.00	1	SU	DLF

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Client Sample ID: SB-27

Laboratory Sample ID: 16L0048-16

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	16	7440-22-4	SW6010C	12/05/2016 08:45	12/05/2016 14:38	BLOD		0.485	0.500	1	mg/kg	CWO
Arsenic	16	7440-38-2	SW6010C	12/05/2016 08:45	12/05/2016 14:38	5.17		0.970	1.00	1	mg/kg	CWO
Beryllium	16RE1	7440-41-7	SW6010C	12/05/2016 08:45	12/05/2016 16:53	BLOD		0.970	0.970	5	mg/kg	CWO
Cadmium	16	7440-43-9	SW6010C	12/05/2016 08:45	12/05/2016 14:38	1.53		0.194	0.200	1	mg/kg	CWO
Chromium	16	7440-47-3	SW6010C	12/05/2016 08:45	12/05/2016 14:38	15.0		0.485	0.500	1	mg/kg	CWO
Copper	16	7440-50-8	SW6010C	12/05/2016 08:45	12/05/2016 14:38	21.2		0.485	2.50	1	mg/kg	CWO
Mercury	16RE1	7439-97-6	SW7471B	12/05/2016 12:00	12/06/2016 13:05	0.217		0.075	0.075	10	mg/kg	MWL
Nickel	16	7440-02-0	SW6010C	12/05/2016 08:45	12/05/2016 14:38	8.20		0.485	0.500	1	mg/kg	CWO
Lead	16	7439-92-1	SW6010C	12/05/2016 08:45	12/05/2016 14:38	47.6		0.485	0.500	1	mg/kg	CWO
Antimony	16	7440-36-0	SW6010C	12/05/2016 08:45	12/05/2016 14:38	BLOD		4.85	5.00	1	mg/kg	CWO
Selenium	16RE1	7782-49-2	SW6010C	12/05/2016 08:45	12/05/2016 16:53	BLOD		12.1	12.1	5	mg/kg	CWO
Thallium	16	7440-28-0	SW6010C	12/05/2016 08:45	12/05/2016 14:38	BLOD		2.42	2.50	1	mg/kg	CWO
Zinc	16	7440-66-6	SW6010C	12/05/2016 08:45	12/05/2016 14:38	63.5		0.485	0.500	1	mg/kg	CWO

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Client Sample ID: SB-27

Laboratory Sample ID: 16L0048-16

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	16	630-20-6	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,1,1-Trichloroethane	16	71-55-6	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,1,2,2-Tetrachloroethane	16	79-34-5	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,1,2-Trichloroethane	16	79-00-5	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,1-Dichloroethane	16	75-34-3	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,1-Dichloroethylene	16	75-35-4	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,1-Dichloropropene	16	563-58-6	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,2,3-Trichlorobenzene	16	87-61-6	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,2,3-Trichloropropane	16	96-18-4	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,2,4-Trichlorobenzene	16	120-82-1	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,2,4-Trimethylbenzene	16	95-63-6	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,2-Dibromo-3-chloropropane (DBCP)	16	96-12-8	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,2-Dibromoethane (EDB)	16	106-93-4	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,2-Dichlorobenzene	16	95-50-1	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,2-Dichloroethane	16	107-06-2	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,2-Dichloropropane	16	78-87-5	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,3,5-Trimethylbenzene	16	108-67-8	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,3-Dichlorobenzene	16	541-73-1	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,3-Dichloropropane	16	142-28-9	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
1,4-Dichlorobenzene	16	106-46-7	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
2,2-Dichloropropane	16	594-20-7	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
2-Butanone (MEK)	16	78-93-3	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
2-Chlorotoluene	16	95-49-8	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
2-Hexanone (MBK)	16	591-78-6	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Chlorotoluene	16	106-43-4	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
4-Isopropyltoluene	16	99-87-6	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
4-Methyl-2-pentanone (MIBK)	16	108-10-1	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Acetone	16	67-64-1	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		479	479	50	ug/kg	KCS
Benzene	16	71-43-2	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Bromobenzene	16	108-86-1	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Bromochloromethane	16	74-97-5	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Bromodichloromethane	16	75-27-4	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Bromoform	16	75-25-2	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Bromomethane	16	74-83-9	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Carbon disulfide	16	75-15-0	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Carbon tetrachloride	16	56-23-5	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Chlorobenzene	16	108-90-7	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Chloroethane	16	75-00-3	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Chloroform	16	67-66-3	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Chloromethane	16	74-87-3	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
cis-1,2-Dichloroethylene	16	156-59-2	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
cis-1,3-Dichloropropene	16	10061-01-5	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Dibromochloromethane	16	124-48-1	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Dibromomethane	16	74-95-3	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Dichlorodifluoromethane	16	75-71-8	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Di-isopropyl ether (DIPE)	16	108-20-3	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Ethylbenzene	16	100-41-4	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Hexachlorobutadiene	16	87-68-3	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	16	74-88-4	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Isopropylbenzene	16	98-82-8	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
m+p-Xylenes	16	179601-23-1	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Methylene chloride	16	75-09-2	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Methyl-t-butyl ether (MTBE)	16	1634-04-4	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Naphthalene	16	91-20-3	SW8260B	12/06/2016 14:43	12/06/2016 14:43	510		240	240	50	ug/kg	KCS
n-Butylbenzene	16	104-51-8	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
n-Propylbenzene	16	103-65-1	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
o-Xylene	16	95-47-6	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
sec-Butylbenzene	16	135-98-8	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Styrene	16	100-42-5	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
tert-Butylbenzene	16	98-06-6	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Tetrachloroethylene (PCE)	16	127-18-4	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Toluene	16	108-88-3	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
trans-1,2-Dichloroethylene	16	156-60-5	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
trans-1,3-Dichloropropene	16	10061-02-6	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Trichloroethylene	16	79-01-6	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Trichlorofluoromethane	16	75-69-4	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Vinyl acetate	16	108-05-4	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	479	50	ug/kg	KCS
Vinyl chloride	16	75-01-4	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		240	240	50	ug/kg	KCS
Xylenes, Total	16	1330-20-7	SW8260B	12/06/2016 14:43	12/06/2016 14:43	BLOD		719	719	50	ug/kg	KCS
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	16	97.4 %	80-120	12/06/2016 14:43	12/06/2016 14:43							
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	16	103 %	85-120	12/06/2016 14:43	12/06/2016 14:43							
<i>Surr: Dibromofluoromethane (Surr)</i>	16	92.9 %	80-119	12/06/2016 14:43	12/06/2016 14:43							

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Volatile Organic Compounds by GCMS												
Surr: Toluene-d8 (Surr)	16	99.5 %	85-115	12/06/2016 14:43	12/06/2016 14:43							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
1,2,4,5-Tetrachlorobenzene	16	95-94-3	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
1,2,4-Trichlorobenzene	16	120-82-1	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
1,2-Dichlorobenzene	16	95-50-1	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
1,2-Diphenylhydrazine	16	122-66-7	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
1,3-Dichlorobenzene	16	541-73-1	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
1,4-Dichlorobenzene	16	106-46-7	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
1-Chloronaphthalene	16	90-13-1	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
1-Naphthylamine	16	134-32-7	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
2,3,4,6-Tetrachlorophenol	16	58-90-2	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
2,4,5-Trichlorophenol	16	95-95-4	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
2,4,6-Trichlorophenol	16	88-06-2	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
2,4-Dichlorophenol	16	120-83-2	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
2,4-Dimethylphenol	16	105-67-9	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
2,4-Dinitrophenol	16	51-28-5	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD	C	3830	3830	25	ug/kg	EWS
2,4-Dinitrotoluene	16	121-14-2	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD	C	3830	3830	25	ug/kg	EWS
2,6-Dichlorophenol	16	87-65-0	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD	C	3830	3830	25	ug/kg	EWS
2,6-Dinitrotoluene	16	606-20-2	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
2-Chloronaphthalene	16	91-58-7	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
2-Chlorophenol	16	95-57-8	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
2-Methylnaphthalene	16	91-57-6	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
2-Naphthylamine	16	91-59-8	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
2-Nitroaniline	16	88-74-4	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
2-Nitrophenol	16	88-75-5	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
3,3'-Dichlorobenzidine	16	91-94-1	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD	C	3830	3830	25	ug/kg	EWS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
3-Methylcholanthrene	16	56-49-5	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
3-Nitroaniline	16	99-09-2	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD	C	3830	3830	25	ug/kg	EWS
4,6-Dinitro-2-methylphenol	16	534-52-1	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD	C	3830	3830	25	ug/kg	EWS
4-Aminobiphenyl	16	92-67-1	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
4-Bromophenyl phenyl ether	16	101-55-3	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
4-Chloroaniline	16	106-47-8	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
4-Chlorophenyl phenyl ether	16	7005-72-3	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
4-Nitroaniline	16	100-01-6	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
4-Nitrophenol	16	100-02-7	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
7,12-Dimethylbenz (a) anthracene	16	57-97-6	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Acenaphthene	16	83-32-9	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Acenaphthylene	16	208-96-8	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Acetophenone	16	98-86-2	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Aniline	16	62-53-3	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Anthracene	16	120-12-7	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Benzidine	16	92-87-5	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD	C	3830	3830	25	ug/kg	EWS
Benzo (a) anthracene	16	56-55-3	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Benzo (a) pyrene	16	50-32-8	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Benzo (b) fluoranthene	16	205-99-2	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Benzo (g,h,i) perylene	16	191-24-2	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Benzo (k) fluoranthene	16	207-08-9	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Benzoic acid	16	65-85-0	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Benzyl alcohol	16	100-51-6	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
bis (2-Chloroethoxy) methane	16	111-91-1	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS

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 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-27

Laboratory Sample ID: 16L0048-16

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
bis (2-Chloroethyl) ether	16	111-44-4	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
2,2'-Oxybis (1-chloropropane)	16	108-60-1	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
bis (2-Ethylhexyl) phthalate	16	117-81-7	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Butyl benzyl phthalate	16	85-68-7	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Chrysene	16	218-01-9	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Dibenz (a,h) anthracene	16	53-70-3	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Dibenz (a,j) acridine	16	224-42-0	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Dibenzofuran	16	132-64-9	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Diethyl phthalate	16	84-66-2	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Dimethyl phthalate	16	131-11-3	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Di-n-butyl phthalate	16	84-74-2	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Di-n-octyl phthalate	16	117-84-0	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Diphenylamine	16	122-39-4	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Ethyl methanesulfonate	16	62-50-0	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Fluoranthene	16	206-44-0	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Fluorene	16	86-73-7	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Hexachlorobenzene	16	118-74-1	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Hexachlorobutadiene	16	87-68-3	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Hexachlorocyclopentadiene	16	77-47-4	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD	C	3830	3830	25	ug/kg	EWS
Hexachloroethane	16	67-72-1	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Indeno (1,2,3-cd) pyrene	16	193-39-5	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Isophorone	16	78-59-1	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
m+p-Cresols	16	84989-04-8	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Methyl methanesulfonate	16	66-27-3	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Naphthalene	16	91-20-3	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Nitrobenzene	16	98-95-3	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
n-Nitrosodimethylamine	16	62-75-9	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
n-Nitrosodi-n-butylamine	16	924-16-3	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
n-Nitrosodi-n-propylamine	16	621-64-7	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
n-Nitrosodiphenylamine	16	86-30-6	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
n-Nitrosopiperidine	16	100-75-4	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
o+m+p-Cresols	16	1319-77-3	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
o-Cresol	16	95-48-7	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
p-(Dimethylamino) azobenzene	16	60-11-7	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
p-Chloro-m-cresol	16	59-50-7	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Pentachloronitrobenzene (quintozene)	16	82-68-8	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Pentachlorophenol	16	87-86-5	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Phenacetin	16	62-44-2	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Phenanthrene	16	85-01-8	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Phenol	16	108-95-2	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Pronamide	16	23950-58-5	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
Pyrene	16	129-00-0	SW8270D	12/06/2016 09:59	12/07/2016 22:11	7380		3830	3830	25	ug/kg	EWS
Pyridine	16	110-86-1	SW8270D	12/06/2016 09:59	12/07/2016 22:11	BLOD		3830	3830	25	ug/kg	EWS
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	16	61.5 %	35-125	12/06/2016 09:59	12/07/2016 22:11							
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	16	%	45-105	12/06/2016 09:59	12/07/2016 22:11							DS
<i>Surr: 2-Fluorophenol (Surr)</i>	16	59.4 %	35-105	12/06/2016 09:59	12/07/2016 22:11							
<i>Surr: Nitrobenzene-d5 (Surr)</i>	16	37.3 %	35-100	12/06/2016 09:59	12/07/2016 22:11							
<i>Surr: Phenol-d5 (Surr)</i>	16	36.6 %	40-100	12/06/2016 09:59	12/07/2016 22:11							DS
<i>Surr: p-Terphenyl-d14 (Surr)</i>	16	41.1 %	30-125	12/06/2016 09:59	12/07/2016 22:11							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
PCB as Aroclor 1016	16	12674-11-2	SW8082A	12/05/2016 14:05	12/08/2016 02:18	BLOD		0.123	0.247	1	mg/kg dry	SKS
PCB as Aroclor 1221	16	11104-28-2	SW8082A	12/05/2016 14:05	12/08/2016 02:18	BLOD		0.123	0.247	1	mg/kg dry	SKS
PCB as Aroclor 1232	16	11141-16-5	SW8082A	12/05/2016 14:05	12/08/2016 02:18	BLOD		0.123	0.247	1	mg/kg dry	SKS
PCB as Aroclor 1242	16	53469-21-9	SW8082A	12/05/2016 14:05	12/08/2016 02:18	BLOD		0.123	0.247	1	mg/kg dry	SKS
PCB as Aroclor 1248	16	12672-29-6	SW8082A	12/05/2016 14:05	12/08/2016 02:18	BLOD		0.123	0.247	1	mg/kg dry	SKS
PCB as Aroclor 1254	16	11097-69-1	SW8082A	12/05/2016 14:05	12/08/2016 02:18	BLOD		0.123	0.247	1	mg/kg dry	SKS
PCB as Aroclor 1260	16	11096-82-5	SW8082A	12/05/2016 14:05	12/08/2016 02:18	BLOD		0.123	0.247	1	mg/kg dry	SKS
Surr: DCB	16	180 %	30-105	12/05/2016 14:05	12/08/2016 02:18							S
Surr: TCMX	16	135 %	30-105	12/05/2016 14:05	12/08/2016 02:18							S
4,4'-DDD	16	72-54-8	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		11.8	11.8	1	ug/kg	SKS
4,4'-DDE	16	72-55-9	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		7.89	7.89	1	ug/kg	SKS
4,4'-DDT	16	50-29-3	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		7.89	7.89	1	ug/kg	SKS
Aldrin	16	309-00-2	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		3.95	3.95	1	ug/kg	SKS
alpha-BHC	16	319-84-6	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		3.95	3.95	1	ug/kg	SKS
beta-BHC	16	319-85-7	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		3.95	3.95	1	ug/kg	SKS
Chlordane	16	57-74-9	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		19.7	82.9	1	ug/kg	SKS
delta-BHC	16	319-86-8	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		7.89	7.89	1	ug/kg	SKS
Dieldrin	16	60-57-1	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		7.89	7.89	1	ug/kg	SKS
Endosulfan I	16	959-98-8	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		7.89	7.89	1	ug/kg	SKS
Endosulfan II	16	33213-65-9	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		11.8	11.8	1	ug/kg	SKS
Endosulfan sulfate	16	1031-07-8	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		3.95	3.95	1	ug/kg	SKS
Endrin	16	72-20-8	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		7.89	7.89	1	ug/kg	SKS
Endrin aldehyde	16	7421-93-4	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		15.8	15.8	1	ug/kg	SKS
Endrin ketone	16	53494-70-5	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		3.95	3.95	1	ug/kg	SKS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
gamma-BHC (Lindane)	16	58-89-9	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		3.95	3.95	1	ug/kg	SKS
Heptachlor	16	76-44-8	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		3.95	3.95	1	ug/kg	SKS
Heptachlor epoxide	16	1024-57-3	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		3.95	78.9	1	ug/kg	SKS
Methoxychlor	16	72-43-5	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		3.95	78.9	1	ug/kg	SKS
Mirex	16	2385-85-5	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		11.8	11.8	1	ug/kg	SKS
Toxaphene	16	8001-35-2	SW8081B	12/05/2016 14:05	12/08/2016 02:18	BLOD		19.7	82.9	1	ug/kg	SKS
Surr: TCMX	16	110 %	30-105	12/05/2016 14:05	12/08/2016 02:18							S
Surr: DCB	16	145 %	30-105	12/05/2016 14:05	12/08/2016 02:18							S

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Wet Chemistry Analysis												
Cyanide	16	57-12-5	SW9012B	12/06/2016 16:51	12/06/2016 16:51	4.67		0.96	0.96	1	mg/kg	BBP
Percent Solids	16	NA	SM18 2540G	12/07/2016 10:00	12/08/2016 09:52	80.0		0.10	0.10	1	%	RCV
pH	16	NA	SW9045D	12/02/2016 17:31	12/02/2016 17:31	7.25		0.00	0.00	1	SU	DLF

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	17	7440-22-4	SW6010C	12/05/2016 08:45	12/05/2016 14:48	BLOD		0.473	0.500	1	mg/kg	CWO
Arsenic	17	7440-38-2	SW6010C	12/05/2016 08:45	12/05/2016 14:48	8.75		0.946	1.00	1	mg/kg	CWO
Beryllium	17RE1	7440-41-7	SW6010C	12/05/2016 08:45	12/05/2016 16:54	BLOD		0.946	0.946	5	mg/kg	CWO
Cadmium	17	7440-43-9	SW6010C	12/05/2016 08:45	12/05/2016 14:48	1.82		0.189	0.200	1	mg/kg	CWO
Chromium	17	7440-47-3	SW6010C	12/05/2016 08:45	12/05/2016 14:48	13.3		0.473	0.500	1	mg/kg	CWO
Copper	17	7440-50-8	SW6010C	12/05/2016 08:45	12/05/2016 14:48	32.3		0.473	2.50	1	mg/kg	CWO
Mercury	17RE1	7439-97-6	SW7471B	12/05/2016 12:00	12/06/2016 13:07	0.501		0.153	0.153	20	mg/kg	MWL
Nickel	17	7440-02-0	SW6010C	12/05/2016 08:45	12/05/2016 14:48	9.90		0.473	0.500	1	mg/kg	CWO
Lead	17	7439-92-1	SW6010C	12/05/2016 08:45	12/05/2016 14:48	247		0.473	0.500	1	mg/kg	CWO
Antimony	17	7440-36-0	SW6010C	12/05/2016 08:45	12/05/2016 14:48	BLOD		4.73	5.00	1	mg/kg	CWO
Selenium	17RE1	7782-49-2	SW6010C	12/05/2016 08:45	12/05/2016 16:55	BLOD		11.8	11.8	5	mg/kg	CWO
Thallium	17	7440-28-0	SW6010C	12/05/2016 08:45	12/05/2016 14:48	BLOD		2.37	2.50	1	mg/kg	CWO
Zinc	17	7440-66-6	SW6010C	12/05/2016 08:45	12/05/2016 14:48	105		0.473	0.500	1	mg/kg	CWO

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	17	630-20-6	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,1,1-Trichloroethane	17	71-55-6	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,1,2,2-Tetrachloroethane	17	79-34-5	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,1,2-Trichloroethane	17	79-00-5	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,1-Dichloroethane	17	75-34-3	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,1-Dichloroethylene	17	75-35-4	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,1-Dichloropropene	17	563-58-6	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,2,3-Trichlorobenzene	17	87-61-6	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,2,3-Trichloropropane	17	96-18-4	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,2,4-Trichlorobenzene	17	120-82-1	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,2,4-Trimethylbenzene	17	95-63-6	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,2-Dibromo-3-chloropropane (DBCP)	17	96-12-8	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,2-Dibromoethane (EDB)	17	106-93-4	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,2-Dichlorobenzene	17	95-50-1	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,2-Dichloroethane	17	107-06-2	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,2-Dichloropropane	17	78-87-5	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,3,5-Trimethylbenzene	17	108-67-8	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,3-Dichlorobenzene	17	541-73-1	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,3-Dichloropropane	17	142-28-9	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
1,4-Dichlorobenzene	17	106-46-7	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
2,2-Dichloropropane	17	594-20-7	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
2-Butanone (MEK)	17	78-93-3	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
2-Chlorotoluene	17	95-49-8	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
2-Hexanone (MBK)	17	591-78-6	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS

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Volatile Organic Compounds by GCMS												
4-Chlorotoluene	17	106-43-4	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
4-Isopropyltoluene	17	99-87-6	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
4-Methyl-2-pentanone (MIBK)	17	108-10-1	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Acetone	17	67-64-1	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		495	495	50	ug/kg	KCS
Benzene	17	71-43-2	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Bromobenzene	17	108-86-1	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Bromochloromethane	17	74-97-5	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Bromodichloromethane	17	75-27-4	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Bromoform	17	75-25-2	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Bromomethane	17	74-83-9	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Carbon disulfide	17	75-15-0	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Carbon tetrachloride	17	56-23-5	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Chlorobenzene	17	108-90-7	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Chloroethane	17	75-00-3	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Chloroform	17	67-66-3	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Chloromethane	17	74-87-3	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
cis-1,2-Dichloroethylene	17	156-59-2	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
cis-1,3-Dichloropropene	17	10061-01-5	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Dibromochloromethane	17	124-48-1	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Dibromomethane	17	74-95-3	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Dichlorodifluoromethane	17	75-71-8	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Di-isopropyl ether (DIPE)	17	108-20-3	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Ethylbenzene	17	100-41-4	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Hexachlorobutadiene	17	87-68-3	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS

Certificate of Analysis

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 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-28

Laboratory Sample ID: 16L0048-17

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	17	74-88-4	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Isopropylbenzene	17	98-82-8	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
m+p-Xylenes	17	179601-23-1	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Methylene chloride	17	75-09-2	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Methyl-t-butyl ether (MTBE)	17	1634-04-4	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Naphthalene	17	91-20-3	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
n-Butylbenzene	17	104-51-8	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
n-Propylbenzene	17	103-65-1	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
o-Xylene	17	95-47-6	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
sec-Butylbenzene	17	135-98-8	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Styrene	17	100-42-5	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
tert-Butylbenzene	17	98-06-6	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Tetrachloroethylene (PCE)	17	127-18-4	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Toluene	17	108-88-3	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
trans-1,2-Dichloroethylene	17	156-60-5	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
trans-1,3-Dichloropropene	17	10061-02-6	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Trichloroethylene	17	79-01-6	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Trichlorofluoromethane	17	75-69-4	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Vinyl acetate	17	108-05-4	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	495	50	ug/kg	KCS
Vinyl chloride	17	75-01-4	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		247	247	50	ug/kg	KCS
Xylenes, Total	17	1330-20-7	SW8260B	12/06/2016 15:07	12/06/2016 15:07	BLOD		742	742	50	ug/kg	KCS
Surr: 1,2-Dichloroethane-d4 (Surr)	17	94.2 %	80-120	12/06/2016 15:07	12/06/2016 15:07							
Surr: 4-Bromofluorobenzene (Surr)	17	101 %	85-120	12/06/2016 15:07	12/06/2016 15:07							
Surr: Dibromofluoromethane (Surr)	17	92.1 %	80-119	12/06/2016 15:07	12/06/2016 15:07							

Certificate of Analysis

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Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-28

Laboratory Sample ID: 16L0048-17

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
<i>Surr: Toluene-d8 (Surr)</i>	17	98.1 %	85-115	12/06/2016 15:07	12/06/2016 15:07							

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Laboratory Sample ID: 16L0048-17

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
1,2,4,5-Tetrachlorobenzene	17	95-94-3	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
1,2,4-Trichlorobenzene	17	120-82-1	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
1,2-Dichlorobenzene	17	95-50-1	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
1,2-Diphenylhydrazine	17	122-66-7	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
1,3-Dichlorobenzene	17	541-73-1	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
1,4-Dichlorobenzene	17	106-46-7	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
1-Chloronaphthalene	17	90-13-1	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
1-Naphthylamine	17	134-32-7	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
2,3,4,6-Tetrachlorophenol	17	58-90-2	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
2,4,5-Trichlorophenol	17	95-95-4	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
2,4,6-Trichlorophenol	17	88-06-2	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
2,4-Dichlorophenol	17	120-83-2	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
2,4-Dimethylphenol	17	105-67-9	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
2,4-Dinitrophenol	17	51-28-5	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD	C	3880	3880	25	ug/kg	EWS
2,4-Dinitrotoluene	17	121-14-2	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD	C	3880	3880	25	ug/kg	EWS
2,6-Dichlorophenol	17	87-65-0	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD	C	3880	3880	25	ug/kg	EWS
2,6-Dinitrotoluene	17	606-20-2	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
2-Chloronaphthalene	17	91-58-7	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
2-Chlorophenol	17	95-57-8	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
2-Methylnaphthalene	17	91-57-6	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
2-Naphthylamine	17	91-59-8	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
2-Nitroaniline	17	88-74-4	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
2-Nitrophenol	17	88-75-5	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
3,3'-Dichlorobenzidine	17	91-94-1	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD	C	3880	3880	25	ug/kg	EWS

Certificate of Analysis

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Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-28

Laboratory Sample ID: 16L0048-17

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatle Organic Compounds by GCMS												
3-Methylcholanthrene	17	56-49-5	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
3-Nitroaniline	17	99-09-2	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD	C	3880	3880	25	ug/kg	EWS
4,6-Dinitro-2-methylphenol	17	534-52-1	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD	C	3880	3880	25	ug/kg	EWS
4-Aminobiphenyl	17	92-67-1	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
4-Bromophenyl phenyl ether	17	101-55-3	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
4-Chloroaniline	17	106-47-8	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
4-Chlorophenyl phenyl ether	17	7005-72-3	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
4-Nitroaniline	17	100-01-6	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
4-Nitrophenol	17	100-02-7	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
7,12-Dimethylbenz (a) anthracene	17	57-97-6	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Acenaphthene	17	83-32-9	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Acenaphthylene	17	208-96-8	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Acetophenone	17	98-86-2	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Aniline	17	62-53-3	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Anthracene	17	120-12-7	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Benzidine	17	92-87-5	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD	C	3880	3880	25	ug/kg	EWS
Benzo (a) anthracene	17	56-55-3	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Benzo (a) pyrene	17	50-32-8	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Benzo (b) fluoranthene	17	205-99-2	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Benzo (g,h,i) perylene	17	191-24-2	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Benzo (k) fluoranthene	17	207-08-9	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Benzoic acid	17	65-85-0	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Benzyl alcohol	17	100-51-6	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
bis (2-Chloroethoxy) methane	17	111-91-1	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS

Certificate of Analysis

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Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-28

Laboratory Sample ID: 16L0048-17

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
bis (2-Chloroethyl) ether	17	111-44-4	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
2,2'-Oxybis (1-chloropropane)	17	108-60-1	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
bis (2-Ethylhexyl) phthalate	17	117-81-7	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Butyl benzyl phthalate	17	85-68-7	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Chrysene	17	218-01-9	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Dibenz (a,h) anthracene	17	53-70-3	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Dibenz (a,j) acridine	17	224-42-0	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Dibenzofuran	17	132-64-9	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Diethyl phthalate	17	84-66-2	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Dimethyl phthalate	17	131-11-3	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Di-n-butyl phthalate	17	84-74-2	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Di-n-octyl phthalate	17	117-84-0	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Diphenylamine	17	122-39-4	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Ethyl methanesulfonate	17	62-50-0	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Fluoranthene	17	206-44-0	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Fluorene	17	86-73-7	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Hexachlorobenzene	17	118-74-1	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Hexachlorobutadiene	17	87-68-3	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Hexachlorocyclopentadiene	17	77-47-4	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD	C	3880	3880	25	ug/kg	EWS
Hexachloroethane	17	67-72-1	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Indeno (1,2,3-cd) pyrene	17	193-39-5	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Isophorone	17	78-59-1	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
m+p-Cresols	17	84989-04-8	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Methyl methanesulfonate	17	66-27-3	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS

Certificate of Analysis

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Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-28

Laboratory Sample ID: 16L0048-17

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Naphthalene	17	91-20-3	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Nitrobenzene	17	98-95-3	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
n-Nitrosodimethylamine	17	62-75-9	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
n-Nitrosodi-n-butylamine	17	924-16-3	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
n-Nitrosodi-n-propylamine	17	621-64-7	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
n-Nitrosodiphenylamine	17	86-30-6	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
n-Nitrosopiperidine	17	100-75-4	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
o+m+p-Cresols	17	1319-77-3	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
o-Cresol	17	95-48-7	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
p-(Dimethylamino) azobenzene	17	60-11-7	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
p-Chloro-m-cresol	17	59-50-7	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Pentachloronitrobenzene (quintozene)	17	82-68-8	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Pentachlorophenol	17	87-86-5	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Phenacetin	17	62-44-2	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Phenanthrene	17	85-01-8	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Phenol	17	108-95-2	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Pronamide	17	23950-58-5	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Pyrene	17	129-00-0	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Pyridine	17	110-86-1	SW8270D	12/06/2016 09:59	12/07/2016 20:21	BLOD		3880	3880	25	ug/kg	EWS
Surr: 2,4,6-Tribromophenol (Surr)	17	63.7 %	35-125	12/06/2016 09:59	12/07/2016 20:21							
Surr: 2-Fluorobiphenyl (Surr)	17	%	45-105	12/06/2016 09:59	12/07/2016 20:21							DS
Surr: 2-Fluorophenol (Surr)	17	58.5 %	35-105	12/06/2016 09:59	12/07/2016 20:21							
Surr: Nitrobenzene-d5 (Surr)	17	36.2 %	35-100	12/06/2016 09:59	12/07/2016 20:21							
Surr: Phenol-d5 (Surr)	17	37.9 %	40-100	12/06/2016 09:59	12/07/2016 20:21							DS
Surr: p-Terphenyl-d14 (Surr)	17	47.7 %	30-125	12/06/2016 09:59	12/07/2016 20:21							

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Client Sample ID: SB-28

Laboratory Sample ID: 16L0048-17

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
PCB as Aroclor 1016	17	12674-11-2	SW8082A	12/05/2016 14:05	12/08/2016 02:37	BLOD		0.124	0.248	1	mg/kg dry	SKS
PCB as Aroclor 1221	17	11104-28-2	SW8082A	12/05/2016 14:05	12/08/2016 02:37	BLOD		0.124	0.248	1	mg/kg dry	SKS
PCB as Aroclor 1232	17	11141-16-5	SW8082A	12/05/2016 14:05	12/08/2016 02:37	BLOD		0.124	0.248	1	mg/kg dry	SKS
PCB as Aroclor 1242	17	53469-21-9	SW8082A	12/05/2016 14:05	12/08/2016 02:37	BLOD		0.124	0.248	1	mg/kg dry	SKS
PCB as Aroclor 1248	17	12672-29-6	SW8082A	12/05/2016 14:05	12/08/2016 02:37	BLOD		0.124	0.248	1	mg/kg dry	SKS
PCB as Aroclor 1254	17	11097-69-1	SW8082A	12/05/2016 14:05	12/08/2016 02:37	BLOD		0.124	0.248	1	mg/kg dry	SKS
PCB as Aroclor 1260	17	11096-82-5	SW8082A	12/05/2016 14:05	12/08/2016 02:37	BLOD		0.124	0.248	1	mg/kg dry	SKS
<i>Surr: DCB</i>	17	135 %	30-105	12/05/2016 14:05	12/08/2016 02:37							S
<i>Surr: TCMX</i>	17	75.0 %	30-105	12/05/2016 14:05	12/08/2016 02:37							
4,4'-DDD	17	72-54-8	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		11.9	11.9	1	ug/kg	SKS
4,4'-DDE	17	72-55-9	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		7.95	7.95	1	ug/kg	SKS
4,4'-DDT	17	50-29-3	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		7.95	7.95	1	ug/kg	SKS
Aldrin	17	309-00-2	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		3.97	3.97	1	ug/kg	SKS
alpha-BHC	17	319-84-6	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		3.97	3.97	1	ug/kg	SKS
beta-BHC	17	319-85-7	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		3.97	3.97	1	ug/kg	SKS
Chlordane	17	57-74-9	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		19.9	83.4	1	ug/kg	SKS
delta-BHC	17	319-86-8	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		7.95	7.95	1	ug/kg	SKS
Dieldrin	17	60-57-1	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		7.95	7.95	1	ug/kg	SKS
Endosulfan I	17	959-98-8	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		7.95	7.95	1	ug/kg	SKS
Endosulfan II	17	33213-65-9	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		11.9	11.9	1	ug/kg	SKS
Endosulfan sulfate	17	1031-07-8	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		3.97	3.97	1	ug/kg	SKS
Endrin	17	72-20-8	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		7.95	7.95	1	ug/kg	SKS
Endrin aldehyde	17	7421-93-4	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		15.9	15.9	1	ug/kg	SKS
Endrin ketone	17	53494-70-5	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		3.97	3.97	1	ug/kg	SKS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
gamma-BHC (Lindane)	17	58-89-9	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		3.97	3.97	1	ug/kg	SKS
Heptachlor	17	76-44-8	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		3.97	3.97	1	ug/kg	SKS
Heptachlor epoxide	17	1024-57-3	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		3.97	79.5	1	ug/kg	SKS
Methoxychlor	17	72-43-5	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		3.97	79.5	1	ug/kg	SKS
Mirex	17	2385-85-5	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		11.9	11.9	1	ug/kg	SKS
Toxaphene	17	8001-35-2	SW8081B	12/05/2016 14:05	12/08/2016 02:37	BLOD		19.9	83.4	1	ug/kg	SKS
Surr: TCMX	17	70.0 %	30-105	12/05/2016 14:05	12/08/2016 02:37							
Surr: DCB	17	125 %	30-105	12/05/2016 14:05	12/08/2016 02:37							S

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Wet Chemistry Analysis												
Cyanide	17	57-12-5	SW9012B	12/06/2016 16:54	12/06/2016 16:54	BLOD		0.99	0.99	1	mg/kg	BBP
Percent Solids	17	NA	SM18 2540G	12/07/2016 10:00	12/08/2016 09:52	80.2		0.10	0.10	1	%	RCV
pH	17	NA	SW9045D	12/02/2016 17:33	12/02/2016 17:33	6.43		0.00	0.00	1	SU	DLF

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Laboratory Sample ID: 16L0048-18

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	18	7440-22-4	SW6010C	12/05/2016 08:45	12/05/2016 14:50	BLOD		0.484	0.500	1	mg/kg	CWO
Arsenic	18	7440-38-2	SW6010C	12/05/2016 08:45	12/05/2016 14:50	4.23		0.969	1.00	1	mg/kg	CWO
Beryllium	18RE1	7440-41-7	SW6010C	12/05/2016 08:45	12/05/2016 16:56	BLOD		0.969	0.969	5	mg/kg	CWO
Cadmium	18	7440-43-9	SW6010C	12/05/2016 08:45	12/05/2016 14:50	0.816		0.194	0.200	1	mg/kg	CWO
Chromium	18	7440-47-3	SW6010C	12/05/2016 08:45	12/05/2016 14:50	9.20		0.484	0.500	1	mg/kg	CWO
Copper	18	7440-50-8	SW6010C	12/05/2016 08:45	12/05/2016 14:50	15.8		0.484	2.50	1	mg/kg	CWO
Mercury	18	7439-97-6	SW7471B	12/05/2016 12:00	12/06/2016 12:43	0.107		0.007	0.008	1	mg/kg	MWL
Nickel	18	7440-02-0	SW6010C	12/05/2016 08:45	12/05/2016 14:50	2.76		0.484	0.500	1	mg/kg	CWO
Lead	18	7439-92-1	SW6010C	12/05/2016 08:45	12/05/2016 14:50	20.9		0.484	0.500	1	mg/kg	CWO
Antimony	18	7440-36-0	SW6010C	12/05/2016 08:45	12/05/2016 14:50	BLOD		4.84	5.00	1	mg/kg	CWO
Selenium	18	7782-49-2	SW6010C	12/05/2016 08:45	12/05/2016 14:50	BLOD		2.42	2.50	1	mg/kg	CWO
Thallium	18	7440-28-0	SW6010C	12/05/2016 08:45	12/05/2016 14:50	BLOD		2.42	2.50	1	mg/kg	CWO
Zinc	18	7440-66-6	SW6010C	12/05/2016 08:45	12/05/2016 14:50	22.2		0.484	0.500	1	mg/kg	CWO

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	18	630-20-6	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,1,1-Trichloroethane	18	71-55-6	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,1,2,2-Tetrachloroethane	18	79-34-5	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,1,2-Trichloroethane	18	79-00-5	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,1-Dichloroethane	18	75-34-3	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,1-Dichloroethylene	18	75-35-4	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,1-Dichloropropene	18	563-58-6	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,2,3-Trichlorobenzene	18	87-61-6	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,2,3-Trichloropropane	18	96-18-4	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,2,4-Trichlorobenzene	18	120-82-1	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,2,4-Trimethylbenzene	18	95-63-6	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,2-Dibromo-3-chloropropane (DBCP)	18	96-12-8	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,2-Dibromoethane (EDB)	18	106-93-4	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,2-Dichlorobenzene	18	95-50-1	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,2-Dichloroethane	18	107-06-2	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,2-Dichloropropane	18	78-87-5	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,3,5-Trimethylbenzene	18	108-67-8	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,3-Dichlorobenzene	18	541-73-1	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,3-Dichloropropane	18	142-28-9	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
1,4-Dichlorobenzene	18	106-46-7	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
2,2-Dichloropropane	18	594-20-7	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
2-Butanone (MEK)	18	78-93-3	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
2-Chlorotoluene	18	95-49-8	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
2-Hexanone (MBK)	18	591-78-6	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Chlorotoluene	18	106-43-4	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
4-Isopropyltoluene	18	99-87-6	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
4-Methyl-2-pentanone (MIBK)	18	108-10-1	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Acetone	18	67-64-1	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		500	500	50	ug/kg	KCS
Benzene	18	71-43-2	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Bromobenzene	18	108-86-1	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Bromochloromethane	18	74-97-5	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Bromodichloromethane	18	75-27-4	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Bromoform	18	75-25-2	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Bromomethane	18	74-83-9	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Carbon disulfide	18	75-15-0	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Carbon tetrachloride	18	56-23-5	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Chlorobenzene	18	108-90-7	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Chloroethane	18	75-00-3	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Chloroform	18	67-66-3	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Chloromethane	18	74-87-3	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
cis-1,2-Dichloroethylene	18	156-59-2	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
cis-1,3-Dichloropropene	18	10061-01-5	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Dibromochloromethane	18	124-48-1	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Dibromomethane	18	74-95-3	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Dichlorodifluoromethane	18	75-71-8	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Di-isopropyl ether (DIPE)	18	108-20-3	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Ethylbenzene	18	100-41-4	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Hexachlorobutadiene	18	87-68-3	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	18	74-88-4	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Isopropylbenzene	18	98-82-8	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
m+p-Xylenes	18	179601-23-1	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Methylene chloride	18	75-09-2	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Methyl-t-butyl ether (MTBE)	18	1634-04-4	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Naphthalene	18	91-20-3	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
n-Butylbenzene	18	104-51-8	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
n-Propylbenzene	18	103-65-1	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
o-Xylene	18	95-47-6	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
sec-Butylbenzene	18	135-98-8	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Styrene	18	100-42-5	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
tert-Butylbenzene	18	98-06-6	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Tetrachloroethylene (PCE)	18	127-18-4	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Toluene	18	108-88-3	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
trans-1,2-Dichloroethylene	18	156-60-5	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
trans-1,3-Dichloropropene	18	10061-02-6	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Trichloroethylene	18	79-01-6	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Trichlorofluoromethane	18	75-69-4	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Vinyl acetate	18	108-05-4	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	500	50	ug/kg	KCS
Vinyl chloride	18	75-01-4	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		250	250	50	ug/kg	KCS
Xylenes, Total	18	1330-20-7	SW8260B	12/06/2016 15:31	12/06/2016 15:31	BLOD		749	749	50	ug/kg	KCS
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	18	93.4 %	80-120	12/06/2016 15:31	12/06/2016 15:31							
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	18	99.7 %	85-120	12/06/2016 15:31	12/06/2016 15:31							
<i>Surr: Dibromofluoromethane (Surr)</i>	18	91.2 %	80-119	12/06/2016 15:31	12/06/2016 15:31							

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-29

Laboratory Sample ID: 16L0048-18

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
<i>Surr: Toluene-d8 (Surr)</i>	18	98.2 %	85-115	12/06/2016 15:31	12/06/2016 15:31							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
1,2,4,5-Tetrachlorobenzene	18	95-94-3	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
1,2,4-Trichlorobenzene	18	120-82-1	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
1,2-Dichlorobenzene	18	95-50-1	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
1,2-Diphenylhydrazine	18	122-66-7	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
1,3-Dichlorobenzene	18	541-73-1	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
1,4-Dichlorobenzene	18	106-46-7	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
1-Chloronaphthalene	18	90-13-1	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
1-Naphthylamine	18	134-32-7	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
2,3,4,6-Tetrachlorophenol	18	58-90-2	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
2,4,5-Trichlorophenol	18	95-95-4	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
2,4,6-Trichlorophenol	18	88-06-2	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
2,4-Dichlorophenol	18	120-83-2	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
2,4-Dimethylphenol	18	105-67-9	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
2,4-Dinitrophenol	18	51-28-5	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD	C	3830	3830	25	ug/kg	EWS
2,4-Dinitrotoluene	18	121-14-2	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD	C	3830	3830	25	ug/kg	EWS
2,6-Dichlorophenol	18	87-65-0	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD	C	3830	3830	25	ug/kg	EWS
2,6-Dinitrotoluene	18	606-20-2	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
2-Chloronaphthalene	18	91-58-7	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
2-Chlorophenol	18	95-57-8	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
2-Methylnaphthalene	18	91-57-6	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
2-Naphthylamine	18	91-59-8	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
2-Nitroaniline	18	88-74-4	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
2-Nitrophenol	18	88-75-5	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
3,3'-Dichlorobenzidine	18	91-94-1	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD	C	3830	3830	25	ug/kg	EWS

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Client Sample ID: SB-29

Laboratory Sample ID: 16L0048-18

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
3-Methylcholanthrene	18	56-49-5	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
3-Nitroaniline	18	99-09-2	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD	C	3830	3830	25	ug/kg	EWS
4,6-Dinitro-2-methylphenol	18	534-52-1	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD	C	3830	3830	25	ug/kg	EWS
4-Aminobiphenyl	18	92-67-1	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
4-Bromophenyl phenyl ether	18	101-55-3	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
4-Chloroaniline	18	106-47-8	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
4-Chlorophenyl phenyl ether	18	7005-72-3	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
4-Nitroaniline	18	100-01-6	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
4-Nitrophenol	18	100-02-7	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
7,12-Dimethylbenz (a) anthracene	18	57-97-6	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Acenaphthene	18	83-32-9	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Acenaphthylene	18	208-96-8	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Acetophenone	18	98-86-2	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Aniline	18	62-53-3	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Anthracene	18	120-12-7	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Benzidine	18	92-87-5	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD	C	3830	3830	25	ug/kg	EWS
Benzo (a) anthracene	18	56-55-3	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Benzo (a) pyrene	18	50-32-8	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Benzo (b) fluoranthene	18	205-99-2	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Benzo (g,h,i) perylene	18	191-24-2	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Benzo (k) fluoranthene	18	207-08-9	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Benzoic acid	18	65-85-0	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Benzyl alcohol	18	100-51-6	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
bis (2-Chloroethoxy) methane	18	111-91-1	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS

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Client Sample ID: **SB-29**

Laboratory Sample ID: **16L0048-18**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
bis (2-Chloroethyl) ether	18	111-44-4	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
2,2'-Oxybis (1-chloropropane)	18	108-60-1	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
bis (2-Ethylhexyl) phthalate	18	117-81-7	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Butyl benzyl phthalate	18	85-68-7	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Chrysene	18	218-01-9	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Dibenz (a,h) anthracene	18	53-70-3	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Dibenz (a,j) acridine	18	224-42-0	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Dibenzofuran	18	132-64-9	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Diethyl phthalate	18	84-66-2	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Dimethyl phthalate	18	131-11-3	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Di-n-butyl phthalate	18	84-74-2	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Di-n-octyl phthalate	18	117-84-0	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Diphenylamine	18	122-39-4	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Ethyl methanesulfonate	18	62-50-0	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Fluoranthene	18	206-44-0	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Fluorene	18	86-73-7	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Hexachlorobenzene	18	118-74-1	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Hexachlorobutadiene	18	87-68-3	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Hexachlorocyclopentadiene	18	77-47-4	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD	C	3830	3830	25	ug/kg	EWS
Hexachloroethane	18	67-72-1	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Indeno (1,2,3-cd) pyrene	18	193-39-5	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Isophorone	18	78-59-1	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
m+p-Cresols	18	84989-04-8	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Methyl methanesulfonate	18	66-27-3	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Naphthalene	18	91-20-3	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Nitrobenzene	18	98-95-3	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
n-Nitrosodimethylamine	18	62-75-9	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
n-Nitrosodi-n-butylamine	18	924-16-3	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
n-Nitrosodi-n-propylamine	18	621-64-7	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
n-Nitrosodiphenylamine	18	86-30-6	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
n-Nitrosopiperidine	18	100-75-4	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
o+m+p-Cresols	18	1319-77-3	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
o-Cresol	18	95-48-7	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
p-(Dimethylamino) azobenzene	18	60-11-7	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
p-Chloro-m-cresol	18	59-50-7	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Pentachloronitrobenzene (quintozene)	18	82-68-8	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Pentachlorophenol	18	87-86-5	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Phenacetin	18	62-44-2	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Phenanthrene	18	85-01-8	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Phenol	18	108-95-2	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Pronamide	18	23950-58-5	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Pyrene	18	129-00-0	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Pyridine	18	110-86-1	SW8270D	12/06/2016 09:59	12/07/2016 19:08	BLOD		3830	3830	25	ug/kg	EWS
Surr: 2,4,6-Tribromophenol (Surr)	18	70.2 %	35-125	12/06/2016 09:59	12/07/2016 19:08							
Surr: 2-Fluorobiphenyl (Surr)	18	%	45-105	12/06/2016 09:59	12/07/2016 19:08							DS
Surr: 2-Fluorophenol (Surr)	18	64.0 %	35-105	12/06/2016 09:59	12/07/2016 19:08							
Surr: Nitrobenzene-d5 (Surr)	18	41.7 %	35-100	12/06/2016 09:59	12/07/2016 19:08							
Surr: Phenol-d5 (Surr)	18	41.4 %	40-100	12/06/2016 09:59	12/07/2016 19:08							
Surr: p-Terphenyl-d14 (Surr)	18	47.5 %	30-125	12/06/2016 09:59	12/07/2016 19:08							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
PCB as Aroclor 1016	18	12674-11-2	SW8082A	12/05/2016 14:05	12/08/2016 02:56	BLOD		0.113	0.227	1	mg/kg dry	SKS
PCB as Aroclor 1221	18	11104-28-2	SW8082A	12/05/2016 14:05	12/08/2016 02:56	BLOD		0.113	0.227	1	mg/kg dry	SKS
PCB as Aroclor 1232	18	11141-16-5	SW8082A	12/05/2016 14:05	12/08/2016 02:56	BLOD		0.113	0.227	1	mg/kg dry	SKS
PCB as Aroclor 1242	18	53469-21-9	SW8082A	12/05/2016 14:05	12/08/2016 02:56	BLOD		0.113	0.227	1	mg/kg dry	SKS
PCB as Aroclor 1248	18	12672-29-6	SW8082A	12/05/2016 14:05	12/08/2016 02:56	BLOD		0.113	0.227	1	mg/kg dry	SKS
PCB as Aroclor 1254	18	11097-69-1	SW8082A	12/05/2016 14:05	12/08/2016 02:56	BLOD		0.113	0.227	1	mg/kg dry	SKS
PCB as Aroclor 1260	18	11096-82-5	SW8082A	12/05/2016 14:05	12/08/2016 02:56	BLOD		0.113	0.227	1	mg/kg dry	SKS
<i>Surr: DCB</i>	18	200 %	30-105	12/05/2016 14:05	12/08/2016 02:56							S
<i>Surr: TCMX</i>	18	105 %	30-105	12/05/2016 14:05	12/08/2016 02:56							
4,4'-DDD	18	72-54-8	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		11.3	11.3	1	ug/kg	SKS
4,4'-DDE	18	72-55-9	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		7.55	7.55	1	ug/kg	SKS
4,4'-DDT	18	50-29-3	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		7.55	7.55	1	ug/kg	SKS
Aldrin	18	309-00-2	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		3.77	3.77	1	ug/kg	SKS
alpha-BHC	18	319-84-6	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		3.77	3.77	1	ug/kg	SKS
beta-BHC	18	319-85-7	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		3.77	3.77	1	ug/kg	SKS
Chlordane	18	57-74-9	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		18.9	79.2	1	ug/kg	SKS
delta-BHC	18	319-86-8	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		7.55	7.55	1	ug/kg	SKS
Dieldrin	18	60-57-1	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		7.55	7.55	1	ug/kg	SKS
Endosulfan I	18	959-98-8	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		7.55	7.55	1	ug/kg	SKS
Endosulfan II	18	33213-65-9	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		11.3	11.3	1	ug/kg	SKS
Endosulfan sulfate	18	1031-07-8	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		3.77	3.77	1	ug/kg	SKS
Endrin	18	72-20-8	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		7.55	7.55	1	ug/kg	SKS
Endrin aldehyde	18	7421-93-4	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		15.1	15.1	1	ug/kg	SKS
Endrin ketone	18	53494-70-5	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		3.77	3.77	1	ug/kg	SKS

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Submitted To: Julia Campus

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Client Sample ID: SB-29

Laboratory Sample ID: 16L0048-18

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
gamma-BHC (Lindane)	18	58-89-9	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		3.77	3.77	1	ug/kg	SKS
Heptachlor	18	76-44-8	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		3.77	3.77	1	ug/kg	SKS
Heptachlor epoxide	18	1024-57-3	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		3.77	75.5	1	ug/kg	SKS
Methoxychlor	18	72-43-5	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		3.77	75.5	1	ug/kg	SKS
Mirex	18	2385-85-5	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		11.3	11.3	1	ug/kg	SKS
Toxaphene	18	8001-35-2	SW8081B	12/05/2016 14:05	12/08/2016 02:56	BLOD		18.9	79.2	1	ug/kg	SKS
Surr: TCMX	18	100 %	30-105	12/05/2016 14:05	12/08/2016 02:56							
Surr: DCB	18	185 %	30-105	12/05/2016 14:05	12/08/2016 02:56							S

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Wet Chemistry Analysis												
Cyanide	18	57-12-5	SW9012B	12/06/2016 16:57	12/06/2016 16:57	BLOD		0.98	0.98	1	mg/kg	BBP
Percent Solids	18	NA	SM18 2540G	12/07/2016 10:00	12/08/2016 09:52	83.1		0.10	0.10	1	%	RCV
pH	18	NA	SW9045D	12/02/2016 17:36	12/02/2016 17:36	6.97		0.00	0.00	1	SU	DLF

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Laboratory Sample ID: 16L0048-19

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	19	7440-22-4	SW6010C	12/05/2016 08:45	12/05/2016 14:52	BLOD		0.475	0.500	1	mg/kg	CWO
Arsenic	19	7440-38-2	SW6010C	12/05/2016 08:45	12/05/2016 14:52	3.92		0.950	1.00	1	mg/kg	CWO
Beryllium	19RE1	7440-41-7	SW6010C	12/05/2016 08:45	12/05/2016 17:05	BLOD		0.950	0.950	5	mg/kg	CWO
Cadmium	19	7440-43-9	SW6010C	12/05/2016 08:45	12/05/2016 14:52	1.35		0.190	0.200	1	mg/kg	CWO
Chromium	19	7440-47-3	SW6010C	12/05/2016 08:45	12/05/2016 14:52	14.7		0.475	0.500	1	mg/kg	CWO
Copper	19	7440-50-8	SW6010C	12/05/2016 08:45	12/05/2016 14:52	11.8		0.475	2.50	1	mg/kg	CWO
Mercury	19	7439-97-6	SW7471B	12/05/2016 12:00	12/06/2016 12:46	0.148		0.008	0.008	1	mg/kg	MWL
Nickel	19	7440-02-0	SW6010C	12/05/2016 08:45	12/05/2016 14:52	9.31		0.475	0.500	1	mg/kg	CWO
Lead	19	7439-92-1	SW6010C	12/05/2016 08:45	12/05/2016 14:52	33.0		0.475	0.500	1	mg/kg	CWO
Antimony	19	7440-36-0	SW6010C	12/05/2016 08:45	12/05/2016 14:52	BLOD		4.75	5.00	1	mg/kg	CWO
Selenium	19	7782-49-2	SW6010C	12/05/2016 08:45	12/05/2016 14:52	BLOD		2.37	2.50	1	mg/kg	CWO
Thallium	19	7440-28-0	SW6010C	12/05/2016 08:45	12/05/2016 14:52	BLOD		2.37	2.50	1	mg/kg	CWO
Zinc	19	7440-66-6	SW6010C	12/05/2016 08:45	12/05/2016 14:52	43.3		0.475	0.500	1	mg/kg	CWO

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Client Sample ID: **SB-30**

Laboratory Sample ID: **16L0048-19**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	19	630-20-6	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,1,1-Trichloroethane	19	71-55-6	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,1,2,2-Tetrachloroethane	19	79-34-5	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,1,2-Trichloroethane	19	79-00-5	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,1-Dichloroethane	19	75-34-3	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,1-Dichloroethylene	19	75-35-4	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,1-Dichloropropene	19	563-58-6	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,2,3-Trichlorobenzene	19	87-61-6	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,2,3-Trichloropropane	19	96-18-4	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,2,4-Trichlorobenzene	19	120-82-1	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,2,4-Trimethylbenzene	19	95-63-6	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,2-Dibromo-3-chloropropane (DBCP)	19	96-12-8	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,2-Dibromoethane (EDB)	19	106-93-4	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,2-Dichlorobenzene	19	95-50-1	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,2-Dichloroethane	19	107-06-2	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,2-Dichloropropane	19	78-87-5	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,3,5-Trimethylbenzene	19	108-67-8	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,3-Dichlorobenzene	19	541-73-1	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,3-Dichloropropane	19	142-28-9	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
1,4-Dichlorobenzene	19	106-46-7	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
2,2-Dichloropropane	19	594-20-7	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
2-Butanone (MEK)	19	78-93-3	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
2-Chlorotoluene	19	95-49-8	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
2-Hexanone (MBK)	19	591-78-6	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS

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Client Sample ID: SB-30

Laboratory Sample ID: 16L0048-19

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Chlorotoluene	19	106-43-4	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
4-Isopropyltoluene	19	99-87-6	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
4-Methyl-2-pentanone (MIBK)	19	108-10-1	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Acetone	19	67-64-1	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		496	496	50	ug/kg	KCS
Benzene	19	71-43-2	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Bromobenzene	19	108-86-1	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Bromochloromethane	19	74-97-5	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Bromodichloromethane	19	75-27-4	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Bromoform	19	75-25-2	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Bromomethane	19	74-83-9	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Carbon disulfide	19	75-15-0	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Carbon tetrachloride	19	56-23-5	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Chlorobenzene	19	108-90-7	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Chloroethane	19	75-00-3	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Chloroform	19	67-66-3	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Chloromethane	19	74-87-3	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
cis-1,2-Dichloroethylene	19	156-59-2	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
cis-1,3-Dichloropropene	19	10061-01-5	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Dibromochloromethane	19	124-48-1	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Dibromomethane	19	74-95-3	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Dichlorodifluoromethane	19	75-71-8	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Di-isopropyl ether (DIPE)	19	108-20-3	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Ethylbenzene	19	100-41-4	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Hexachlorobutadiene	19	87-68-3	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS

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Laboratory Sample ID: 16L0048-19

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	19	74-88-4	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Isopropylbenzene	19	98-82-8	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
m+p-Xylenes	19	179601-23-1	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Methylene chloride	19	75-09-2	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Methyl-t-butyl ether (MTBE)	19	1634-04-4	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Naphthalene	19	91-20-3	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
n-Butylbenzene	19	104-51-8	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
n-Propylbenzene	19	103-65-1	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
o-Xylene	19	95-47-6	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
sec-Butylbenzene	19	135-98-8	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Styrene	19	100-42-5	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
tert-Butylbenzene	19	98-06-6	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Tetrachloroethylene (PCE)	19	127-18-4	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Toluene	19	108-88-3	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
trans-1,2-Dichloroethylene	19	156-60-5	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
trans-1,3-Dichloropropene	19	10061-02-6	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Trichloroethylene	19	79-01-6	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Trichlorofluoromethane	19	75-69-4	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Vinyl acetate	19	108-05-4	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	496	50	ug/kg	KCS
Vinyl chloride	19	75-01-4	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		248	248	50	ug/kg	KCS
Xylenes, Total	19	1330-20-7	SW8260B	12/06/2016 15:55	12/06/2016 15:55	BLOD		743	743	50	ug/kg	KCS
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	19	90.1 %	80-120	12/06/2016 15:55	12/06/2016 15:55							
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	19	99.9 %	85-120	12/06/2016 15:55	12/06/2016 15:55							
<i>Surr: Dibromofluoromethane (Surr)</i>	19	88.8 %	80-119	12/06/2016 15:55	12/06/2016 15:55							

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Laboratory Sample ID: 16L0048-19

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
<i>Surr: Toluene-d8 (Surr)</i>	19	98.5 %	85-115	12/06/2016 15:55	12/06/2016 15:55							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
1,2,4,5-Tetrachlorobenzene	19	95-94-3	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
1,2,4-Trichlorobenzene	19	120-82-1	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
1,2-Dichlorobenzene	19	95-50-1	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
1,2-Diphenylhydrazine	19	122-66-7	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
1,3-Dichlorobenzene	19	541-73-1	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
1,4-Dichlorobenzene	19	106-46-7	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
1-Chloronaphthalene	19	90-13-1	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
1-Naphthylamine	19	134-32-7	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
2,3,4,6-Tetrachlorophenol	19	58-90-2	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
2,4,5-Trichlorophenol	19	95-95-4	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
2,4,6-Trichlorophenol	19	88-06-2	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
2,4-Dichlorophenol	19	120-83-2	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
2,4-Dimethylphenol	19	105-67-9	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
2,4-Dinitrophenol	19	51-28-5	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD	C	3930	3930	25	ug/kg	EWS
2,4-Dinitrotoluene	19	121-14-2	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD	C	3930	3930	25	ug/kg	EWS
2,6-Dichlorophenol	19	87-65-0	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD	C	3930	3930	25	ug/kg	EWS
2,6-Dinitrotoluene	19	606-20-2	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
2-Chloronaphthalene	19	91-58-7	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
2-Chlorophenol	19	95-57-8	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
2-Methylnaphthalene	19	91-57-6	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
2-Naphthylamine	19	91-59-8	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
2-Nitroaniline	19	88-74-4	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
2-Nitrophenol	19	88-75-5	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
3,3'-Dichlorobenzidine	19	91-94-1	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD	C	3930	3930	25	ug/kg	EWS

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Client Sample ID: SB-30

Laboratory Sample ID: 16L0048-19

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
3-Methylcholanthrene	19	56-49-5	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
3-Nitroaniline	19	99-09-2	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD	C	3930	3930	25	ug/kg	EWS
4,6-Dinitro-2-methylphenol	19	534-52-1	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD	C	3930	3930	25	ug/kg	EWS
4-Aminobiphenyl	19	92-67-1	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
4-Bromophenyl phenyl ether	19	101-55-3	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
4-Chloroaniline	19	106-47-8	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
4-Chlorophenyl phenyl ether	19	7005-72-3	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
4-Nitroaniline	19	100-01-6	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
4-Nitrophenol	19	100-02-7	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
7,12-Dimethylbenz (a) anthracene	19	57-97-6	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Acenaphthene	19	83-32-9	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Acenaphthylene	19	208-96-8	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Acetophenone	19	98-86-2	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Aniline	19	62-53-3	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Anthracene	19	120-12-7	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Benzidine	19	92-87-5	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD	C	3930	3930	25	ug/kg	EWS
Benzo (a) anthracene	19	56-55-3	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Benzo (a) pyrene	19	50-32-8	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Benzo (b) fluoranthene	19	205-99-2	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Benzo (g,h,i) perylene	19	191-24-2	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Benzo (k) fluoranthene	19	207-08-9	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Benzoic acid	19	65-85-0	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Benzyl alcohol	19	100-51-6	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
bis (2-Chloroethoxy) methane	19	111-91-1	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS

Certificate of Analysis

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Client Sample ID: SB-30

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
bis (2-Chloroethyl) ether	19	111-44-4	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
2,2'-Oxybis (1-chloropropane)	19	108-60-1	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
bis (2-Ethylhexyl) phthalate	19	117-81-7	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Butyl benzyl phthalate	19	85-68-7	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Chrysene	19	218-01-9	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Dibenz (a,h) anthracene	19	53-70-3	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Dibenz (a,j) acridine	19	224-42-0	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Dibenzofuran	19	132-64-9	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Diethyl phthalate	19	84-66-2	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Dimethyl phthalate	19	131-11-3	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Di-n-butyl phthalate	19	84-74-2	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Di-n-octyl phthalate	19	117-84-0	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Diphenylamine	19	122-39-4	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Ethyl methanesulfonate	19	62-50-0	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Fluoranthene	19	206-44-0	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Fluorene	19	86-73-7	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Hexachlorobenzene	19	118-74-1	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Hexachlorobutadiene	19	87-68-3	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Hexachlorocyclopentadiene	19	77-47-4	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD	C	3930	3930	25	ug/kg	EWS
Hexachloroethane	19	67-72-1	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Indeno (1,2,3-cd) pyrene	19	193-39-5	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Isophorone	19	78-59-1	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
m+p-Cresols	19	84989-04-8	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Methyl methanesulfonate	19	66-27-3	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS

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Client Sample ID: SB-30

Laboratory Sample ID: 16L0048-19

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Naphthalene	19	91-20-3	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Nitrobenzene	19	98-95-3	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
n-Nitrosodimethylamine	19	62-75-9	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
n-Nitrosodi-n-butylamine	19	924-16-3	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
n-Nitrosodi-n-propylamine	19	621-64-7	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
n-Nitrosodiphenylamine	19	86-30-6	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
n-Nitrosopiperidine	19	100-75-4	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
o+m+p-Cresols	19	1319-77-3	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
o-Cresol	19	95-48-7	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
p-(Dimethylamino) azobenzene	19	60-11-7	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
p-Chloro-m-cresol	19	59-50-7	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Pentachloronitrobenzene (quintozene)	19	82-68-8	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Pentachlorophenol	19	87-86-5	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Phenacetin	19	62-44-2	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Phenanthrene	19	85-01-8	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Phenol	19	108-95-2	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Pronamide	19	23950-58-5	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Pyrene	19	129-00-0	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Pyridine	19	110-86-1	SW8270D	12/06/2016 09:59	12/07/2016 17:54	BLOD		3930	3930	25	ug/kg	EWS
Surr: 2,4,6-Tribromophenol (Surr)	19	85.8 %	35-125	12/06/2016 09:59	12/07/2016 17:54							
Surr: 2-Fluorobiphenyl (Surr)	19	%	45-105	12/06/2016 09:59	12/07/2016 17:54							DS
Surr: 2-Fluorophenol (Surr)	19	82.7 %	35-105	12/06/2016 09:59	12/07/2016 17:54							
Surr: Nitrobenzene-d5 (Surr)	19	61.0 %	35-100	12/06/2016 09:59	12/07/2016 17:54							
Surr: Phenol-d5 (Surr)	19	60.1 %	40-100	12/06/2016 09:59	12/07/2016 17:54							
Surr: p-Terphenyl-d14 (Surr)	19	68.5 %	30-125	12/06/2016 09:59	12/07/2016 17:54							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
PCB as Aroclor 1016	19	12674-11-2	SW8082A	12/05/2016 14:05	12/08/2016 03:15	BLOD		0.113	0.226	1	mg/kg dry	SKS
PCB as Aroclor 1221	19	11104-28-2	SW8082A	12/05/2016 14:05	12/08/2016 03:15	BLOD		0.113	0.226	1	mg/kg dry	SKS
PCB as Aroclor 1232	19	11141-16-5	SW8082A	12/05/2016 14:05	12/08/2016 03:15	BLOD		0.113	0.226	1	mg/kg dry	SKS
PCB as Aroclor 1242	19	53469-21-9	SW8082A	12/05/2016 14:05	12/08/2016 03:15	BLOD		0.113	0.226	1	mg/kg dry	SKS
PCB as Aroclor 1248	19	12672-29-6	SW8082A	12/05/2016 14:05	12/08/2016 03:15	BLOD		0.113	0.226	1	mg/kg dry	SKS
PCB as Aroclor 1254	19	11097-69-1	SW8082A	12/05/2016 14:05	12/08/2016 03:15	BLOD		0.113	0.226	1	mg/kg dry	SKS
PCB as Aroclor 1260	19	11096-82-5	SW8082A	12/05/2016 14:05	12/08/2016 03:15	BLOD		0.113	0.226	1	mg/kg dry	SKS
Surr: DCB	19	165 %	30-105	12/05/2016 14:05	12/08/2016 03:15							S
Surr: TCMX	19	100 %	30-105	12/05/2016 14:05	12/08/2016 03:15							
4,4'-DDD	19	72-54-8	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		11.4	11.4	1	ug/kg	SKS
4,4'-DDE	19	72-55-9	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		7.59	7.59	1	ug/kg	SKS
4,4'-DDT	19	50-29-3	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		7.59	7.59	1	ug/kg	SKS
Aldrin	19	309-00-2	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		3.80	3.80	1	ug/kg	SKS
alpha-BHC	19	319-84-6	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		3.80	3.80	1	ug/kg	SKS
beta-BHC	19	319-85-7	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		3.80	3.80	1	ug/kg	SKS
Chlordane	19	57-74-9	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		19.0	79.7	1	ug/kg	SKS
delta-BHC	19	319-86-8	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		7.59	7.59	1	ug/kg	SKS
Dieldrin	19	60-57-1	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		7.59	7.59	1	ug/kg	SKS
Endosulfan I	19	959-98-8	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		7.59	7.59	1	ug/kg	SKS
Endosulfan II	19	33213-65-9	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		11.4	11.4	1	ug/kg	SKS
Endosulfan sulfate	19	1031-07-8	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		3.80	3.80	1	ug/kg	SKS
Endrin	19	72-20-8	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		7.59	7.59	1	ug/kg	SKS
Endrin aldehyde	19	7421-93-4	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		15.2	15.2	1	ug/kg	SKS
Endrin ketone	19	53494-70-5	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		3.80	3.80	1	ug/kg	SKS

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
gamma-BHC (Lindane)	19	58-89-9	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		3.80	3.80	1	ug/kg	SKS
Heptachlor	19	76-44-8	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		3.80	3.80	1	ug/kg	SKS
Heptachlor epoxide	19	1024-57-3	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		3.80	75.9	1	ug/kg	SKS
Methoxychlor	19	72-43-5	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		3.80	75.9	1	ug/kg	SKS
Mirex	19	2385-85-5	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		11.4	11.4	1	ug/kg	SKS
Toxaphene	19	8001-35-2	SW8081B	12/05/2016 14:05	12/08/2016 03:15	BLOD		19.0	79.7	1	ug/kg	SKS
Surr: TCMX	19	95.0 %	30-105	12/05/2016 14:05	12/08/2016 03:15							
Surr: DCB	19	140 %	30-105	12/05/2016 14:05	12/08/2016 03:15							S

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Wet Chemistry Analysis												
Cyanide	19	57-12-5	SW9012B	12/06/2016 17:00	12/06/2016 17:00	BLOD		1.00	1.00	1	mg/kg	BBP
Percent Solids	19	NA	SM18 2540G	12/07/2016 10:00	12/08/2016 09:52	84.1		0.10	0.10	1	%	RCV
pH	19	NA	SW9045D	12/02/2016 17:37	12/02/2016 17:37	7.39		0.00	0.00	1	SU	DLF

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Metals (Total) by EPA 200 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZL0135 - EPA200.2/R2.8										
Blank (BZL0135-BLK1) Prepared: 12/05/2016 Analyzed: 12/06/2016										
Beryllium	BLOD	0.0040	mg/L							
Cadmium	BLOD	0.0040	mg/L							
Chromium	BLOD	0.0100	mg/L							
Copper	BLOD	0.0100	mg/L							
Lead	BLOD	0.0100	mg/L							
Nickel	BLOD	0.0100	mg/L							
Silver	BLOD	0.0100	mg/L							
Zinc	BLOD	0.0100	mg/L							
Blank (BZL0135-BLK2) Prepared: 12/05/2016 Analyzed: 12/06/2016										
Beryllium	BLOD	0.0040	mg/L							
LCS (BZL0135-BS1) Prepared: 12/05/2016 Analyzed: 12/06/2016										
Beryllium	0.516	0.0040	mg/L	0.500		103	80-120			
Cadmium	0.519	0.0040	mg/L	0.500		104	80-120			
Chromium	0.518	0.0100	mg/L	0.500		104	80-120			
Copper	0.520	0.0100	mg/L	0.500		104	80-120			
Lead	0.517	0.0100	mg/L	0.500		103	80-120			
Nickel	0.513	0.0100	mg/L	0.500		103	80-120			
Silver	0.105	0.0100	mg/L	0.100		105	80-120			E
Zinc	0.514	0.0100	mg/L	0.500		103	80-120			
LCS Dup (BZL0135-BSD1) Prepared: 12/05/2016 Analyzed: 12/06/2016										
Beryllium	0.521	0.0040	mg/L	0.500		104	80-120	0.956	20	
Cadmium	0.524	0.0040	mg/L	0.500		105	80-120	0.946	20	
Chromium	0.519	0.0100	mg/L	0.500		104	80-120	0.126	20	
Copper	0.523	0.0100	mg/L	0.500		105	80-120	0.721	20	

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Metals (Total) by EPA 200 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZL0135 - EPA200.2/R2.8										
LCS Dup (BZL0135-BSD1)										
				Prepared: 12/05/2016 Analyzed: 12/06/2016						
Lead	0.518	0.0100	mg/L	0.500		104	80-120	0.179	20	
Nickel	0.515	0.0100	mg/L	0.500		103	80-120	0.364	20	
Silver	0.105	0.0100	mg/L	0.100		105	80-120	0.464	20	E
Zinc	0.520	0.0100	mg/L	0.500		104	80-120	1.07	20	
Matrix Spike (BZL0135-MS1)										
		Source: 16L0062-07		Prepared: 12/05/2016 Analyzed: 12/06/2016						
Beryllium	0.500	0.0040	mg/L	0.500	BLOD	100	75-125			
Cadmium	0.503	0.0040	mg/L	0.500	BLOD	101	75-125			
Chromium	0.503	0.0100	mg/L	0.500	BLOD	101	75-125			
Copper	0.500	0.0100	mg/L	0.500	BLOD	100	75-125			
Lead	0.508	0.0100	mg/L	0.500	BLOD	102	75-125			
Nickel	0.495	0.0100	mg/L	0.500	BLOD	99.0	75-125			
Silver	0.102	0.0100	mg/L	0.100	BLOD	102	75-125			E
Zinc	0.500	0.0100	mg/L	0.500	BLOD	99.9	75-125			
Matrix Spike (BZL0135-MS2)										
		Source: 16L0091-01		Prepared: 12/05/2016 Analyzed: 12/06/2016						
Beryllium	0.523	0.0040	mg/L	0.500	BLOD	105	75-125			
Cadmium	0.510	0.0040	mg/L	0.500	BLOD	102	75-125			
Chromium	0.514	0.0100	mg/L	0.500	BLOD	103	75-125			
Copper	0.536	0.0100	mg/L	0.500	0.0046	106	75-125			
Lead	0.517	0.0100	mg/L	0.500	BLOD	103	75-125			
Nickel	0.511	0.0100	mg/L	0.500	0.0031	102	75-125			
Silver	0.102	0.0100	mg/L	0.100	BLOD	102	75-125			E
Zinc	0.520	0.0100	mg/L	0.500	BLOD	104	75-125			
Matrix Spike Dup (BZL0135-MSD1)										
		Source: 16L0062-07		Prepared: 12/05/2016 Analyzed: 12/06/2016						
Beryllium	0.508	0.0040	mg/L	0.500	BLOD	102	75-125	1.55	20	

Certificate of Analysis

Client Name: Timmons Group
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Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Metals (Total) by EPA 200 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0135 - EPA200.2/R2.8

Matrix Spike Dup (BZL0135-MSD1)		Source: 16L0062-07			Prepared: 12/05/2016 Analyzed: 12/06/2016					
Cadmium	0.511	0.0040	mg/L	0.500	BLOD	102	75-125	1.64	20	
Chromium	0.508	0.0100	mg/L	0.500	BLOD	102	75-125	1.04	20	
Copper	0.508	0.0100	mg/L	0.500	BLOD	102	75-125	1.52	20	
Lead	0.511	0.0100	mg/L	0.500	BLOD	102	75-125	0.720	20	
Nickel	0.501	0.0100	mg/L	0.500	BLOD	100	75-125	1.19	20	
Silver	0.102	0.0100	mg/L	0.100	BLOD	102	75-125	0.454	20	E
Zinc	0.509	0.0100	mg/L	0.500	BLOD	102	75-125	1.83	20	

Matrix Spike Dup (BZL0135-MSD2)		Source: 16L0091-01			Prepared: 12/05/2016 Analyzed: 12/06/2016					
Beryllium	0.511	0.0040	mg/L	0.500	BLOD	102	75-125	2.33	20	
Cadmium	0.500	0.0040	mg/L	0.500	BLOD	99.9	75-125	2.11	20	
Chromium	0.504	0.0100	mg/L	0.500	BLOD	101	75-125	2.11	20	
Copper	0.523	0.0100	mg/L	0.500	0.0046	104	75-125	2.35	20	
Lead	0.503	0.0100	mg/L	0.500	BLOD	101	75-125	2.88	20	
Nickel	0.498	0.0100	mg/L	0.500	0.0031	98.9	75-125	2.66	20	
Silver	0.0996	0.0100	mg/L	0.100	BLOD	99.6	75-125	2.01	20	
Zinc	0.508	0.0100	mg/L	0.500	BLOD	102	75-125	2.27	20	

Batch BZL0189 - SW7470A

Blank (BZL0189-BLK1)		Prepared: 12/06/2016 Analyzed: 12/07/2016									
Mercury	BLOD	0.0002	mg/L								
LCS (BZL0189-BS1)		Prepared: 12/06/2016 Analyzed: 12/07/2016									
Mercury	0.0021	0.0002	mg/L	0.00250	85.1		85-115				
LCS Dup (BZL0189-BSD1)		Prepared: 12/06/2016 Analyzed: 12/07/2016									
Mercury	0.0022	0.0002	mg/L	0.00250	88.6		85-115		4.11	20	

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Metals (Total) by EPA 200 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZL0189 - SW7470A										
Matrix Spike (BZL0189-MS1)	Source: 16L0055-01			Prepared: 12/06/2016 Analyzed: 12/07/2016						
Mercury	0.0024	0.0002	mg/L	0.00250	BLOD	96.0	70-130			
Matrix Spike (BZL0189-MS2)	Source: 16L0091-01			Prepared: 12/06/2016 Analyzed: 12/07/2016						
Mercury	0.0020	0.0002	mg/L	0.00250	0.0003	68.6	70-130			M
Matrix Spike Dup (BZL0189-MSD1)	Source: 16L0055-01			Prepared: 12/06/2016 Analyzed: 12/07/2016						
Mercury	0.0023	0.0002	mg/L	0.00250	BLOD	92.7	70-130	3.43	20	
Matrix Spike Dup (BZL0189-MSD2)	Source: 16L0091-01			Prepared: 12/06/2016 Analyzed: 12/07/2016						
Mercury	0.0021	0.0002	mg/L	0.00250	0.0003	71.4	70-130	3.44	20	

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0097 - SW3050B

Blank (BZL0097-BLK1)

Prepared & Analyzed: 12/05/2016

Cadmium	BLOD	0.200	mg/kg							
Copper	BLOD	2.50	mg/kg							
Lead	BLOD	0.500	mg/kg							
Arsenic	BLOD	1.00	mg/kg							
Zinc	BLOD	0.500	mg/kg							
Nickel	BLOD	0.500	mg/kg							
Silver	BLOD	0.500	mg/kg							
Beryllium	BLOD	0.200	mg/kg							
Thallium	BLOD	2.50	mg/kg							
Chromium	BLOD	0.500	mg/kg							
Selenium	BLOD	2.50	mg/kg							
Antimony	BLOD	5.00	mg/kg							

LCS (BZL0097-BS1)

Prepared & Analyzed: 12/05/2016

Nickel	95.1	0.500	mg/kg	95.1		100	80-120
Beryllium	90.8	0.200	mg/kg	95.1		95.5	80-120
Lead	94.4	0.500	mg/kg	95.1		99.2	80-120
Selenium	87.6	2.50	mg/kg	95.1		92.1	80-120
Antimony	78.8	5.00	mg/kg	95.1		82.8	80-120
Copper	97.1	2.50	mg/kg	95.1		102	80-120
Cadmium	94.0	0.200	mg/kg	95.1		98.8	80-120
Arsenic	89.5	1.00	mg/kg	95.1		94.0	80-120
Thallium	90.5	2.50	mg/kg	95.1		95.1	80-120
Silver	4.77	0.500	mg/kg	4.76		100	80-120
Chromium	94.9	0.500	mg/kg	95.1		99.8	80-120

Certificate of Analysis

Client Name: Timmons Group
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Date Issued: 11/22/2017 11:35:12AM

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0097 - SW3050B

LCS (BZL0097-BS1)

Prepared & Analyzed: 12/05/2016

Zinc	93.5	0.500	mg/kg	95.1		98.3	80-120			
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LCS Dup (BZL0097-BSD1)

Prepared & Analyzed: 12/05/2016

Silver	5.09	0.500	mg/kg	4.88		104	80-120	6.45	20	
Chromium	101	0.500	mg/kg	97.7		103	80-120	6.13	20	
Copper	103	2.50	mg/kg	97.7		106	80-120	6.29	20	
Antimony	95.5	5.00	mg/kg	97.7		97.8	80-120	19.2	20	
Zinc	99.2	0.500	mg/kg	97.7		102	80-120	5.88	20	
Lead	103	0.500	mg/kg	97.7		105	80-120	8.25	20	
Nickel	101	0.500	mg/kg	97.7		103	80-120	5.99	20	
Beryllium	96.1	0.200	mg/kg	97.7		98.4	80-120	5.66	20	
Cadmium	99.8	0.200	mg/kg	97.7		102	80-120	6.00	20	
Selenium	94.8	2.50	mg/kg	97.7		97.1	80-120	7.91	20	
Arsenic	97.0	1.00	mg/kg	97.7		99.3	80-120	8.02	20	
Thallium	103	2.50	mg/kg	97.7		105	80-120	12.5	20	

Matrix Spike (BZL0097-MS1)

Source: 16L0073-02

Prepared & Analyzed: 12/05/2016

Silver	4.40	0.500	mg/kg	4.71	BLOD	93.4	75-125			
Antimony	42.5	5.00	mg/kg	94.3	BLOD	45.1	75-125			M
Arsenic	91.8	1.00	mg/kg	94.3	4.27	92.9	75-125			
Beryllium	84.5	0.200	mg/kg	94.3	BLOD	89.7	75-125			
Selenium	82.0	2.50	mg/kg	94.3	BLOD	87.0	75-125			
Copper	92.5	2.50	mg/kg	94.3	1.14	97.0	75-125			
Chromium	106	0.500	mg/kg	94.3	15.2	96.3	75-125			
Nickel	94.1	0.500	mg/kg	94.3	5.89	93.6	75-125			
Zinc	120	0.500	mg/kg	94.3	33.5	91.5	75-125			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZL0097 - SW3050B										
Matrix Spike (BZL0097-MS1)		Source: 16L0073-02			Prepared & Analyzed: 12/05/2016					
Thallium	84.1	2.50	mg/kg	94.3	BLOD	89.2	75-125			
Lead	93.4	0.500	mg/kg	94.3	3.36	95.5	75-125			
Cadmium	88.3	0.200	mg/kg	94.3	0.758	92.9	75-125			
Matrix Spike (BZL0097-MS2)		Source: 16L0073-03			Prepared & Analyzed: 12/05/2016					
Chromium	104	0.500	mg/kg	97.0	10.1	96.7	75-125			
Copper	97.3	2.50	mg/kg	97.0	2.37	97.9	75-125			
Antimony	40.3	5.00	mg/kg	97.0	BLOD	41.6	75-125			M
Cadmium	91.9	0.200	mg/kg	97.0	0.400	94.4	75-125			
Nickel	80.9	0.500	mg/kg	97.0	3.17	80.1	75-125			
Beryllium	89.8	0.200	mg/kg	97.0	BLOD	92.6	75-125			
Selenium	77.6	2.50	mg/kg	97.0	BLOD	80.0	75-125			
Arsenic	84.2	1.00	mg/kg	97.0	4.11	82.6	75-125			
Thallium	79.4	2.50	mg/kg	97.0	BLOD	81.9	75-125			
Silver	4.07	0.500	mg/kg	4.85	BLOD	83.9	75-125			
Lead	84.6	0.500	mg/kg	97.0	1.61	85.5	75-125			
Zinc	99.3	0.500	mg/kg	97.0	7.69	94.4	75-125			
Matrix Spike Dup (BZL0097-MSD1)		Source: 16L0073-02			Prepared & Analyzed: 12/05/2016					
Arsenic	101	1.00	mg/kg	98.9	4.27	98.2	75-125	9.90	20	
Thallium	92.8	2.50	mg/kg	98.9	BLOD	93.8	75-125	9.82	20	
Silver	4.83	0.500	mg/kg	4.95	BLOD	97.8	75-125	9.37	20	
Zinc	129	0.500	mg/kg	98.9	33.5	96.9	75-125	7.71	20	
Chromium	116	0.500	mg/kg	98.9	15.2	102	75-125	8.92	20	
Lead	104	0.500	mg/kg	98.9	3.36	102	75-125	11.1	20	
Antimony	49.5	5.00	mg/kg	98.9	BLOD	50.0	75-125	15.2	20	M

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0097 - SW3050B

Matrix Spike Dup (BZL0097-MSD1)		Source: 16L0073-02			Prepared & Analyzed: 12/05/2016					
Beryllium	93.8	0.200	mg/kg	98.9	BLOD	94.8	75-125	10.4	20	
Selenium	91.7	2.50	mg/kg	98.9	BLOD	92.7	75-125	11.2	20	
Nickel	104	0.500	mg/kg	98.9	5.89	99.2	75-125	9.94	20	
Cadmium	97.7	0.200	mg/kg	98.9	0.758	98.0	75-125	10.1	20	
Copper	102	2.50	mg/kg	98.9	1.14	102	75-125	10.1	20	

Matrix Spike Dup (BZL0097-MSD2)		Source: 16L0073-03			Prepared & Analyzed: 12/05/2016					
Nickel	94.9	0.500	mg/kg	99.9	3.17	91.8	75-125	15.9	20	
Cadmium	91.1	0.200	mg/kg	99.9	0.400	90.8	75-125	0.922	20	
Zinc	100	0.500	mg/kg	99.9	7.69	92.4	75-125	0.761	20	
Chromium	107	0.500	mg/kg	99.9	10.1	97.0	75-125	2.95	20	
Antimony	57.5	5.00	mg/kg	99.9	BLOD	57.6	75-125	35.2	20	M, P
Lead	95.9	0.500	mg/kg	99.9	1.61	94.4	75-125	12.6	20	
Thallium	86.5	2.50	mg/kg	99.9	BLOD	86.6	75-125	8.55	20	
Silver	4.39	0.500	mg/kg	5.00	BLOD	87.8	75-125	7.57	20	
Selenium	88.7	2.50	mg/kg	99.9	BLOD	88.8	75-125	13.4	20	
Arsenic	98.1	1.00	mg/kg	99.9	4.11	94.1	75-125	15.3	20	
Beryllium	91.4	0.200	mg/kg	99.9	BLOD	91.5	75-125	1.69	20	
Copper	98.3	2.50	mg/kg	99.9	2.37	96.0	75-125	0.929	20	

Batch BZL0148 - SW7471A

Blank (BZL0148-BLK1)		Prepared: 12/05/2016 Analyzed: 12/06/2016								
Mercury	BLOD	0.008	mg/kg							
LCS (BZL0148-BS1)		Prepared: 12/05/2016 Analyzed: 12/06/2016								
Mercury	0.094	0.008	mg/kg	0.0921		103	80-120			

Certificate of Analysis

Client Name: Timmons Group
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Date Issued: 11/22/2017 11:35:12AM

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZL0148 - SW7471A										
LCS Dup (BZL0148-BSD1)				Prepared: 12/05/2016 Analyzed: 12/06/2016						
Mercury	0.097	0.008	mg/kg	0.0992		98.0	80-120	2.83	20	
Matrix Spike (BZL0148-MS1)				Source: 16L0048-19 Prepared: 12/05/2016 Analyzed: 12/06/2016						
Mercury	0.284	0.008	mg/kg	0.0986	0.148	137	80-120			M
Matrix Spike Dup (BZL0148-MSD1)				Source: 16L0048-19 Prepared: 12/05/2016 Analyzed: 12/06/2016						
Mercury	0.259	0.008	mg/kg	0.0982	0.148	113	80-120	8.99	20	
Batch BZL0149 - EPA200.9/R2.2										
Blank (BZL0149-BLK1)				Prepared: 12/05/2016 Analyzed: 12/06/2016						
Arsenic	BLOD	0.0050	mg/L							
Blank (BZL0149-BLK2)				Prepared: 12/05/2016 Analyzed: 12/06/2016						
Thallium	BLOD	0.0020	mg/L							
Blank (BZL0149-BLK3)				Prepared: 12/05/2016 Analyzed: 12/06/2016						
Antimony	BLOD	0.0050	mg/L							
Blank (BZL0149-BLK4)				Prepared: 12/05/2016 Analyzed: 12/07/2016						
Selenium	BLOD	0.0030	mg/L							
LCS (BZL0149-BS1)				Prepared: 12/05/2016 Analyzed: 12/06/2016						
Arsenic	0.0427	0.0125	mg/L	0.0500		85.4	80-120			
LCS (BZL0149-BS2)				Prepared: 12/05/2016 Analyzed: 12/06/2016						
Thallium	0.0562	0.0050	mg/L	0.0500		112	80-120			

Certificate of Analysis

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Date Issued: 11/22/2017 11:35:12AM

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZL0149 - EPA200.9/R2.2										
LCS (BZL0149-BS3)				Prepared: 12/05/2016 Analyzed: 12/06/2016						
Antimony	0.0587	0.0125	mg/L	0.0500		117	80-120			
LCS (BZL0149-BS4)				Prepared: 12/05/2016 Analyzed: 12/07/2016						
Selenium	0.0509	0.0075	mg/L	0.0500		102	75-125			
LCS Dup (BZL0149-BSD1)				Prepared: 12/05/2016 Analyzed: 12/06/2016						
Arsenic	0.0432	0.0125	mg/L	0.0500		86.4	80-120	1.18	20	
LCS Dup (BZL0149-BSD2)				Prepared: 12/05/2016 Analyzed: 12/06/2016						
Thallium	0.0564	0.0050	mg/L	0.0500		113	80-120	0.340	20	
LCS Dup (BZL0149-BSD3)				Prepared: 12/05/2016 Analyzed: 12/06/2016						
Antimony	0.0592	0.0125	mg/L	0.0500		118	80-120	0.877	20	
LCS Dup (BZL0149-BSD4)				Prepared: 12/05/2016 Analyzed: 12/07/2016						
Selenium	0.0488	0.0075	mg/L	0.0500		97.6	75-125	4.25	20	
Matrix Spike (BZL0149-MS1)				Source: 16L0062-07 Prepared: 12/05/2016 Analyzed: 12/06/2016						
Arsenic	0.0418	0.0125	mg/L	0.0500	BLOD	83.6	75-125			
Matrix Spike (BZL0149-MS2)				Source: 16L0062-07 Prepared: 12/05/2016 Analyzed: 12/06/2016						
Thallium	0.0579	0.0050	mg/L	0.0500	BLOD	116	75-125			
Matrix Spike (BZL0149-MS3)				Source: 16L0062-07 Prepared: 12/05/2016 Analyzed: 12/07/2016						
Antimony	0.0515	0.0125	mg/L	0.0500	BLOD	103	75-125			
Matrix Spike (BZL0149-MS4)				Source: 16L0062-07 Prepared: 12/05/2016 Analyzed: 12/07/2016						
Selenium	0.0436	0.0075	mg/L	0.0500	BLOD	87.3	75-125			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZL0149 - EPA200.9/R2.2										
Matrix Spike Dup (BZL0149-MSD1) Source: 16L0062-07 Prepared: 12/05/2016 Analyzed: 12/06/2016										
Arsenic	0.0459	0.0125	mg/L	0.0500	BLOD	91.8	75-125	9.40	20	
Matrix Spike Dup (BZL0149-MSD2) Source: 16L0062-07 Prepared: 12/05/2016 Analyzed: 12/06/2016										
Thallium	0.0580	0.0050	mg/L	0.0500	BLOD	116	75-125	0.0875	20	
Matrix Spike Dup (BZL0149-MSD3) Source: 16L0062-07 Prepared: 12/05/2016 Analyzed: 12/07/2016										
Antimony	0.0537	0.0125	mg/L	0.0500	BLOD	107	75-125	4.30	20	
Matrix Spike Dup (BZL0149-MSD4) Source: 16L0062-07 Prepared: 12/05/2016 Analyzed: 12/07/2016										
Selenium	0.0444	0.0075	mg/L	0.0500	BLOD	88.9	75-125	1.83	20	

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0099 - SW5030B

Blank (BZL0099-BLK1)

Prepared & Analyzed: 12/02/2016

1,1,1,2-Tetrachloroethane	BLOD	0.40	ug/L
1,1,1-Trichloroethane	BLOD	1.00	ug/L
1,1,2,2-Tetrachloroethane	BLOD	0.40	ug/L
1,1,2-Trichloroethane	BLOD	1.00	ug/L
1,1-Dichloroethane	BLOD	1.00	ug/L
1,1-Dichloroethylene	BLOD	1.00	ug/L
1,1-Dichloropropene	BLOD	1.00	ug/L
1,2,3-Trichlorobenzene	BLOD	1.00	ug/L
1,2,3-Trichloropropane	BLOD	1.00	ug/L
1,2,4-Trichlorobenzene	BLOD	1.00	ug/L
1,2,4-Trimethylbenzene	BLOD	1.00	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	BLOD	4.00	ug/L
1,2-Dibromoethane (EDB)	BLOD	1.00	ug/L
1,2-Dichlorobenzene	BLOD	1.00	ug/L
1,2-Dichloroethane	BLOD	1.00	ug/L
1,2-Dichloropropane	BLOD	1.00	ug/L
1,3,5-Trimethylbenzene	BLOD	1.00	ug/L
1,3-Dichlorobenzene	BLOD	1.00	ug/L
1,3-Dichloropropane	BLOD	1.00	ug/L
1,4-Dichlorobenzene	BLOD	1.00	ug/L
2,2-Dichloropropane	BLOD	2.00	ug/L
2-Butanone (MEK)	BLOD	10.0	ug/L
2-Chlorotoluene	BLOD	1.00	ug/L
2-Hexanone (MBK)	BLOD	5.00	ug/L
4-Chlorotoluene	BLOD	1.00	ug/L

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0099 - SW5030B

Blank (BZL0099-BLK1)

Prepared & Analyzed: 12/02/2016

4-Isopropyltoluene	BLOD	1.00	ug/L
4-Methyl-2-pentanone (MIBK)	BLOD	5.00	ug/L
Acetone	BLOD	10.0	ug/L
Benzene	BLOD	1.00	ug/L
Bromobenzene	BLOD	1.00	ug/L
Bromochloromethane	BLOD	1.00	ug/L
Bromodichloromethane	BLOD	0.50	ug/L
Bromoform	BLOD	1.00	ug/L
Bromomethane	BLOD	1.00	ug/L
Carbon disulfide	BLOD	10.0	ug/L
Carbon tetrachloride	BLOD	1.00	ug/L
Chlorobenzene	BLOD	1.00	ug/L
Chloroethane	BLOD	1.00	ug/L
Chloroform	BLOD	0.50	ug/L
Chloromethane	BLOD	1.00	ug/L
cis-1,2-Dichloroethylene	BLOD	1.00	ug/L
cis-1,3-Dichloropropene	BLOD	1.00	ug/L
Dibromochloromethane	BLOD	1.00	ug/L
Dibromomethane	BLOD	1.00	ug/L
Dichlorodifluoromethane	BLOD	1.00	ug/L
Di-isopropyl ether (DIPE)	BLOD	5.00	ug/L
Ethylbenzene	BLOD	1.00	ug/L
Hexachlorobutadiene	BLOD	1.00	ug/L
Iodomethane	BLOD	10.0	ug/L
Isopropylbenzene	BLOD	1.00	ug/L

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0099 - SW5030B

Blank (BZL0099-BLK1)

Prepared & Analyzed: 12/02/2016

m+p-Xylenes	BLOD	2.00	ug/L							
Methylene chloride	BLOD	4.00	ug/L							
Methyl-t-butyl ether (MTBE)	BLOD	1.00	ug/L							
Naphthalene	BLOD	1.00	ug/L							
n-Butylbenzene	BLOD	1.00	ug/L							
n-Propylbenzene	BLOD	1.00	ug/L							
o-Xylene	BLOD	1.00	ug/L							
sec-Butylbenzene	BLOD	1.00	ug/L							
Styrene	BLOD	1.00	ug/L							
tert-Butylbenzene	BLOD	1.00	ug/L							
Tetrachloroethylene (PCE)	BLOD	1.00	ug/L							
Toluene	BLOD	1.00	ug/L							
trans-1,2-Dichloroethylene	BLOD	1.00	ug/L							
trans-1,3-Dichloropropene	BLOD	1.00	ug/L							
Trichloroethylene	BLOD	1.00	ug/L							
Trichlorofluoromethane	BLOD	1.00	ug/L							
Vinyl acetate	BLOD	10.0	ug/L							
Vinyl chloride	BLOD	0.50	ug/L							
Xylenes, Total	BLOD	3.00	ug/L							
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<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	46.2		ug/L	50.0		92.4	70-120			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	49.1		ug/L	50.0		98.1	75-120			
<i>Surr: Dibromofluoromethane (Surr)</i>	46.4		ug/L	50.0		92.8	80-119			
<i>Surr: Toluene-d8 (Surr)</i>	49.5		ug/L	50.0		99.0	85-120			

LCS (BZL0099-BS1)

Prepared & Analyzed: 12/02/2016

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0099 - SW5030B

LCS (BZL0099-BS1)

Prepared & Analyzed: 12/02/2016

1,1,1,2-Tetrachloroethane	50.0	0.4	ug/L	50.0		100	80-130			
1,1,1-Trichloroethane	52.4	1	ug/L	50.0		105	65-130			
1,1,2,2-Tetrachloroethane	47.6	0.4	ug/L	50.0		95.3	65-130			
1,1,2-Trichloroethane	52.2	1	ug/L	50.0		104	75-125			
1,1-Dichloroethane	51.2	1	ug/L	50.0		102	70-135			
1,1-Dichloroethylene	51.5	1	ug/L	50.0		103	70-130			
1,1-Dichloropropene	50.3	1	ug/L	50.0		101	75-135			
1,2,3-Trichlorobenzene	52.1	1	ug/L	50.0		104	55-140			
1,2,3-Trichloropropane	46.6	1	ug/L	50.0		93.1	75-125			
1,2,4-Trichlorobenzene	51.5	1	ug/L	50.0		103	65-135			
1,2,4-Trimethylbenzene	53.5	1	ug/L	50.0		107	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	45.4	4	ug/L	50.0		90.9	50-130			
1,2-Dibromoethane (EDB)	49.9	1	ug/L	50.0		99.7	80-120			
1,2-Dichlorobenzene	51.1	1	ug/L	50.0		102	70-120			
1,2-Dichloroethane	44.4	1	ug/L	50.0		88.9	70-130			
1,2-Dichloropropane	50.1	1	ug/L	50.0		100	75-125			
1,3,5-Trimethylbenzene	53.7	1	ug/L	50.0		107	75-125			
1,3-Dichlorobenzene	52.4	1	ug/L	50.0		105	75-125			
1,3-Dichloropropane	49.7	1	ug/L	50.0		99.3	75-125			
1,4-Dichlorobenzene	51.4	1	ug/L	50.0		103	75-125			
2,2-Dichloropropane	54.4	2	ug/L	50.0		109	70-135			
2-Butanone (MEK)	57.5	10	ug/L	50.0		115	30-150			
2-Chlorotoluene	55.3	1	ug/L	50.0		111	75-125			
2-Hexanone (MBK)	62.3	5	ug/L	50.0		125	55-130			
4-Chlorotoluene	52.2	1	ug/L	50.0		104	75-130			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0099 - SW5030B

LCS (BZL0099-BS1)

Prepared & Analyzed: 12/02/2016

4-Isopropyltoluene	53.5	1	ug/L	50.0		107	75-130			
4-Methyl-2-pentanone (MIBK)	60.5	5	ug/L	50.0		121	60-135			
Acetone	59.6	10	ug/L	50.0		119	40-140			
Benzene	54.9	1	ug/L	50.0		110	80-120			
Bromobenzene	51.0	1	ug/L	50.0		102	75-125			
Bromochloromethane	51.3	1	ug/L	50.0		103	65-130			
Bromodichloromethane	57.4	0.5	ug/L	50.0		115	75-120			
Bromoform	53.2	1	ug/L	50.0		106	70-130			
Bromomethane	44.7	1	ug/L	50.0		89.5	30-145			
Carbon disulfide	41.1	10	ug/L	50.0		82.3	35-160			
Carbon tetrachloride	57.4	1	ug/L	50.0		115	65-140			
Chlorobenzene	52.0	1	ug/L	50.0		104	80-120			
Chloroethane	50.6	1	ug/L	50.0		101	60-135			
Chloroform	50.3	0.5	ug/L	50.0		101	65-135			
Chloromethane	44.6	1	ug/L	50.0		89.2	40-125			
cis-1,2-Dichloroethylene	50.7	1	ug/L	50.0		101	70-125			
cis-1,3-Dichloropropene	47.2	1	ug/L	50.0		94.5	70-130			
Dibromochloromethane	55.6	1	ug/L	50.0		111	60-135			
Dibromomethane	54.6	1	ug/L	50.0		109	75-125			
Dichlorodifluoromethane	43.1	1	ug/L	50.0		86.2	30-155			
Ethylbenzene	53.1	1	ug/L	50.0		106	75-125			
Hexachlorobutadiene	49.7	1	ug/L	50.0		99.4	50-140			
Isopropylbenzene	49.8	1	ug/L	50.0		99.6	75-125			
m+p-Xylenes	107	2	ug/L	100		107	75-130			
Methylene chloride	52.3	4	ug/L	50.0		105	55-140			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0099 - SW5030B

LCS (BZL0099-BS1)

Prepared & Analyzed: 12/02/2016

Methyl-t-butyl ether (MTBE)	54.0	1	ug/L	50.0		108	65-125			
Naphthalene	54.0	1	ug/L	50.0		108	55-140			
n-Butylbenzene	55.5	1	ug/L	50.0		111	70-135			
n-Propylbenzene	57.0	1	ug/L	50.0		114	70-130			
o-Xylene	52.3	1	ug/L	50.0		105	80-120			
sec-Butylbenzene	54.1	1	ug/L	50.0		108	70-125			
Styrene	52.7	1	ug/L	50.0		105	65-135			
tert-Butylbenzene	54.7	1	ug/L	50.0		109	70-130			
Tetrachloroethylene (PCE)	53.2	1	ug/L	50.0		106	45-150			
Toluene	54.7	1	ug/L	50.0		109	75-120			
trans-1,2-Dichloroethylene	54.9	1	ug/L	50.0		110	60-140			
trans-1,3-Dichloropropene	53.2	1	ug/L	50.0		106	55-140			
Trichloroethylene	52.7	1	ug/L	50.0		105	70-125			
Trichlorofluoromethane	48.6	1	ug/L	50.0		97.2	60-145			
Vinyl chloride	37.0	0.5	ug/L	50.0		74.0	50-145			

Surr: 1,2-Dichloroethane-d4 (Surr)

45.4 ug/L 50.0 90.8 70-120

Surr: 4-Bromofluorobenzene (Surr)

50.1 ug/L 50.0 100 75-120

Surr: Dibromofluoromethane (Surr)

46.3 ug/L 50.0 92.7 80-119

Surr: Toluene-d8 (Surr)

49.2 ug/L 50.0 98.4 85-120

Matrix Spike (BZL0099-MS1)

Source: 16L0048-08

Prepared & Analyzed: 12/02/2016

1,1,1,2-Tetrachloroethane	49.3	0.4	ug/L	50.0	BLOD	98.6	80-130			
1,1,1-Trichloroethane	51.3	1	ug/L	50.0	BLOD	103	65-130			
1,1,2,2-Tetrachloroethane	51.6	0.4	ug/L	50.0	BLOD	103	65-130			
1,1,2-Trichloroethane	54.8	1	ug/L	50.0	BLOD	110	75-125			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0099 - SW5030B

Matrix Spike (BZL0099-MS1)

Source: 16L0048-08

Prepared & Analyzed: 12/02/2016

1,1-Dichloroethane	52.2	1	ug/L	50.0	BLOD	104	70-135			
1,1-Dichloroethylene	49.6	1	ug/L	50.0	BLOD	99.1	70-130			
1,1-Dichloropropene	49.0	1	ug/L	50.0	BLOD	98.1	75-135			
1,2,3-Trichlorobenzene	51.7	1	ug/L	50.0	BLOD	103	55-140			
1,2,3-Trichloropropane	49.5	1	ug/L	50.0	BLOD	99.0	75-125			
1,2,4-Trichlorobenzene	49.8	1	ug/L	50.0	BLOD	99.4	65-135			
1,2,4-Trimethylbenzene	51.7	1	ug/L	50.0	BLOD	103	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	46.9	4	ug/L	50.0	BLOD	93.8	50-130			
1,2-Dibromoethane (EDB)	51.8	1	ug/L	50.0	BLOD	104	80-120			
1,2-Dichlorobenzene	49.7	1	ug/L	50.0	BLOD	99.4	70-120			
1,2-Dichloroethane	47.6	1	ug/L	50.0	BLOD	95.2	70-130			
1,2-Dichloropropane	51.5	1	ug/L	50.0	BLOD	103	75-125			
1,3,5-Trimethylbenzene	52.0	1	ug/L	50.0	BLOD	104	75-125			
1,3-Dichlorobenzene	49.7	1	ug/L	50.0	BLOD	99.5	75-125			
1,3-Dichloropropane	53.3	1	ug/L	50.0	BLOD	107	75-125			
1,4-Dichlorobenzene	49.4	1	ug/L	50.0	BLOD	98.9	75-125			
2,2-Dichloropropane	53.1	2	ug/L	50.0	BLOD	106	70-135			
2-Butanone (MEK)	56.0	10	ug/L	50.0	BLOD	112	30-150			
2-Chlorotoluene	51.8	1	ug/L	50.0	BLOD	104	75-125			
2-Hexanone (MBK)	58.8	5	ug/L	50.0	BLOD	118	55-130			
4-Chlorotoluene	50.1	1	ug/L	50.0	BLOD	100	75-130			
4-Isopropyltoluene	51.7	1	ug/L	50.0	BLOD	103	75-130			
4-Methyl-2-pentanone (MIBK)	59.3	5	ug/L	50.0	BLOD	119	60-135			
Acetone	64.8	10	ug/L	50.0	12.1	106	40-140			
Benzene	55.2	1	ug/L	50.0	BLOD	110	80-120			

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0099 - SW5030B

Matrix Spike (BZL0099-MS1)	Source: 16L0048-08			Prepared & Analyzed: 12/02/2016						
Bromobenzene	49.4	1	ug/L	50.0	BLOD	98.7	75-125			
Bromochloromethane	53.4	1	ug/L	50.0	BLOD	107	65-130			
Bromodichloromethane	57.5	0.5	ug/L	50.0	BLOD	115	75-120			
Bromoform	53.3	1	ug/L	50.0	BLOD	106	70-130			
Bromomethane	40.3	1	ug/L	50.0	BLOD	80.5	30-145			
Carbon disulfide	40.2	10	ug/L	50.0	BLOD	80.1	35-160			
Carbon tetrachloride	54.9	1	ug/L	50.0	BLOD	110	65-140			
Chlorobenzene	50.2	1	ug/L	50.0	BLOD	100	80-120			
Chloroethane	51.6	1	ug/L	50.0	BLOD	103	60-135			
Chloroform	51.7	0.5	ug/L	50.0	BLOD	103	65-135			
Chloromethane	45.7	1	ug/L	50.0	BLOD	91.4	40-125			
cis-1,2-Dichloroethylene	52.0	1	ug/L	50.0	BLOD	104	70-125			
cis-1,3-Dichloropropene	48.3	1	ug/L	50.0	BLOD	96.7	70-130			
Dibromochloromethane	57.2	1	ug/L	50.0	BLOD	114	60-135			
Dibromomethane	56.2	1	ug/L	50.0	BLOD	112	75-125			
Dichlorodifluoromethane	41.5	1	ug/L	50.0	BLOD	82.9	30-155			
Ethylbenzene	51.4	1	ug/L	50.0	BLOD	103	75-125			
Hexachlorobutadiene	47.6	1	ug/L	50.0	BLOD	95.2	50-140			
Isopropylbenzene	47.2	1	ug/L	50.0	BLOD	94.4	75-125			
m+p-Xylenes	101	2	ug/L	100	BLOD	101	75-130			
Methylene chloride	53.3	4	ug/L	50.0	BLOD	106	55-140			
Methyl-t-butyl ether (MTBE)	58.6	1	ug/L	50.0	BLOD	117	65-125			
Naphthalene	56.9	1	ug/L	50.0	1.12	111	55-140			
n-Butylbenzene	54.0	1	ug/L	50.0	BLOD	108	70-135			
n-Propylbenzene	54.6	1	ug/L	50.0	BLOD	109	70-130			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0099 - SW5030B

Matrix Spike (BZL0099-MS1)	Source: 16L0048-08			Prepared & Analyzed: 12/02/2016						
o-Xylene	51.0	1	ug/L	50.0	BLOD	102	80-120			
sec-Butylbenzene	52.2	1	ug/L	50.0	BLOD	104	70-125			
Styrene	51.1	1	ug/L	50.0	BLOD	102	65-135			
tert-Butylbenzene	51.6	1	ug/L	50.0	BLOD	103	70-130			
Tetrachloroethylene (PCE)	50.1	1	ug/L	50.0	BLOD	100	45-150			
Toluene	53.7	1	ug/L	50.0	BLOD	107	75-120			
trans-1,2-Dichloroethylene	52.9	1	ug/L	50.0	BLOD	106	60-140			
trans-1,3-Dichloropropene	54.1	1	ug/L	50.0	BLOD	108	55-140			
Trichloroethylene	49.9	1	ug/L	50.0	BLOD	99.9	70-125			
Trichlorofluoromethane	47.1	1	ug/L	50.0	BLOD	94.2	60-145			
Vinyl chloride	37.9	0.5	ug/L	50.0	BLOD	75.8	50-145			
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<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	48.6		ug/L	50.0		97.2	70-120			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	50.4		ug/L	50.0		101	75-120			
<i>Surr: Dibromofluoromethane (Surr)</i>	48.3		ug/L	50.0		96.7	80-119			
<i>Surr: Toluene-d8 (Surr)</i>	50.3		ug/L	50.0		101	85-120			

Matrix Spike Dup (BZL0099-MSD1)	Source: 16L0048-08			Prepared & Analyzed: 12/02/2016						
1,1,1,2-Tetrachloroethane	55.0	0.4	ug/L	50.0	BLOD	110	80-130	10.9	30	
1,1,1-Trichloroethane	53.3	1	ug/L	50.0	BLOD	107	65-130	3.79	30	
1,1,2,2-Tetrachloroethane	55.0	0.4	ug/L	50.0	BLOD	110	65-130	6.37	30	
1,1,2-Trichloroethane	57.3	1	ug/L	50.0	BLOD	115	75-125	4.48	30	
1,1-Dichloroethane	54.9	1	ug/L	50.0	BLOD	110	70-135	5.08	30	
1,1-Dichloroethylene	52.4	1	ug/L	50.0	BLOD	105	70-130	5.52	30	
1,1-Dichloropropene	51.5	1	ug/L	50.0	BLOD	103	75-135	4.98	30	
1,2,3-Trichlorobenzene	55.9	1	ug/L	50.0	BLOD	111	55-140	7.75	30	

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0099 - SW5030B

Matrix Spike Dup (BZL0099-MSD1)	Source: 16L0048-08			Prepared & Analyzed: 12/02/2016						
1,2,3-Trichloropropane	52.3	1	ug/L	50.0	BLOD	105	75-125	5.55	30	
1,2,4-Trichlorobenzene	53.9	1	ug/L	50.0	BLOD	108	65-135	7.84	30	
1,2,4-Trimethylbenzene	55.5	1	ug/L	50.0	BLOD	111	75-130	7.10	30	
1,2-Dibromo-3-chloropropane (DBCP)	48.3	4	ug/L	50.0	BLOD	96.5	50-130	2.82	30	
1,2-Dibromoethane (EDB)	56.6	1	ug/L	50.0	BLOD	113	80-120	8.83	30	
1,2-Dichlorobenzene	53.0	1	ug/L	50.0	BLOD	106	70-120	6.46	30	
1,2-Dichloroethane	48.4	1	ug/L	50.0	BLOD	96.7	70-130	1.52	30	
1,2-Dichloropropane	54.2	1	ug/L	50.0	BLOD	108	75-125	5.07	30	
1,3,5-Trimethylbenzene	55.8	1	ug/L	50.0	BLOD	112	75-125	6.98	30	
1,3-Dichlorobenzene	53.8	1	ug/L	50.0	BLOD	108	75-125	7.76	30	
1,3-Dichloropropane	54.5	1	ug/L	50.0	BLOD	109	75-125	2.21	30	
1,4-Dichlorobenzene	53.0	1	ug/L	50.0	BLOD	106	75-125	6.87	30	
2,2-Dichloropropane	54.7	2	ug/L	50.0	BLOD	109	70-135	2.99	30	
2-Butanone (MEK)	61.3	10	ug/L	50.0	BLOD	123	30-150	9.04	30	
2-Chlorotoluene	55.6	1	ug/L	50.0	BLOD	111	75-125	7.08	30	
2-Hexanone (MBK)	67.0	5	ug/L	50.0	BLOD	134	55-130	13.1	30	M
4-Chlorotoluene	53.8	1	ug/L	50.0	BLOD	108	75-130	7.28	30	
4-Isopropyltoluene	55.8	1	ug/L	50.0	BLOD	112	75-130	7.60	30	
4-Methyl-2-pentanone (MIBK)	64.7	5	ug/L	50.0	BLOD	129	60-135	8.64	30	
Acetone	72.4	10	ug/L	50.0	12.1	121	40-140	11.0	30	
Benzene	57.5	1	ug/L	50.0	BLOD	114	80-120	4.10	30	
Bromobenzene	54.8	1	ug/L	50.0	BLOD	110	75-125	10.5	30	
Bromochloromethane	55.2	1	ug/L	50.0	BLOD	110	65-130	3.45	30	
Bromodichloromethane	60.0	0.5	ug/L	50.0	BLOD	120	75-120	4.31	30	M
Bromoform	56.7	1	ug/L	50.0	BLOD	113	70-130	6.22	30	

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0099 - SW5030B

Matrix Spike Dup (BZL0099-MSD1)	Source: 16L0048-08			Prepared & Analyzed: 12/02/2016						
Bromomethane	44.4	1	ug/L	50.0	BLOD	88.9	30-145	9.85	30	
Carbon disulfide	43.3	10	ug/L	50.0	BLOD	86.2	35-160	7.24	30	
Carbon tetrachloride	57.7	1	ug/L	50.0	BLOD	115	65-140	4.86	30	
Chlorobenzene	55.5	1	ug/L	50.0	BLOD	111	80-120	10.0	30	
Chloroethane	54.3	1	ug/L	50.0	BLOD	109	60-135	5.08	30	
Chloroform	53.0	0.5	ug/L	50.0	BLOD	106	65-135	2.41	30	
Chloromethane	48.7	1	ug/L	50.0	BLOD	97.3	40-125	6.31	30	
cis-1,2-Dichloroethylene	54.6	1	ug/L	50.0	BLOD	109	70-125	4.86	30	
cis-1,3-Dichloropropene	50.5	1	ug/L	50.0	BLOD	101	70-130	4.35	30	
Dibromochloromethane	59.5	1	ug/L	50.0	BLOD	119	60-135	3.97	30	
Dibromomethane	58.1	1	ug/L	50.0	BLOD	116	75-125	3.27	30	
Dichlorodifluoromethane	45.6	1	ug/L	50.0	BLOD	91.2	30-155	9.53	30	
Ethylbenzene	56.2	1	ug/L	50.0	BLOD	112	75-125	8.94	30	
Hexachlorobutadiene	51.0	1	ug/L	50.0	BLOD	102	50-140	6.82	30	
Isopropylbenzene	52.6	1	ug/L	50.0	BLOD	105	75-125	10.9	30	
m+p-Xylenes	113	2	ug/L	100	BLOD	113	75-130	10.7	30	
Methylene chloride	55.9	4	ug/L	50.0	BLOD	111	55-140	4.78	30	
Methyl-t-butyl ether (MTBE)	60.4	1	ug/L	50.0	BLOD	121	65-125	3.13	30	
Naphthalene	60.8	1	ug/L	50.0	1.12	119	55-140	6.64	30	
n-Butylbenzene	57.8	1	ug/L	50.0	BLOD	116	70-135	6.82	30	
n-Propylbenzene	59.1	1	ug/L	50.0	BLOD	118	70-130	7.93	30	
o-Xylene	56.2	1	ug/L	50.0	BLOD	112	80-120	9.82	30	
sec-Butylbenzene	56.8	1	ug/L	50.0	BLOD	114	70-125	8.51	30	
Styrene	56.0	1	ug/L	50.0	BLOD	112	65-135	9.14	30	
tert-Butylbenzene	56.6	1	ug/L	50.0	BLOD	113	70-130	9.26	30	

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0099 - SW5030B

Matrix Spike Dup (BZL0099-MSD1)	Source: 16L0048-08			Prepared & Analyzed: 12/02/2016						
Tetrachloroethylene (PCE)	54.1	1	ug/L	50.0	BLOD	108	45-150	7.72	30	
Toluene	55.9	1	ug/L	50.0	BLOD	111	75-120	3.89	30	
trans-1,2-Dichloroethylene	56.2	1	ug/L	50.0	BLOD	112	60-140	6.15	30	
trans-1,3-Dichloropropene	56.5	1	ug/L	50.0	BLOD	113	55-140	4.36	30	
Trichloroethylene	52.8	1	ug/L	50.0	BLOD	106	70-125	5.59	30	
Trichlorofluoromethane	49.0	1	ug/L	50.0	BLOD	98.0	60-145	3.94	30	
Vinyl chloride	41.8	0.5	ug/L	50.0	BLOD	83.5	50-145	9.65	30	
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>45.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>91.1</i>	<i>70-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>52.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>104</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>47.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>95.6</i>	<i>80-119</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>49.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.1</i>	<i>85-120</i>			

Batch BZL0185 - SW5030B

Blank (BZL0185-BLK1)	Prepared & Analyzed: 12/05/2016									
1,1,1,2-Tetrachloroethane	BLOD	0.40	ug/L							
1,1,1-Trichloroethane	BLOD	1.00	ug/L							
1,1,2,2-Tetrachloroethane	BLOD	0.40	ug/L							
1,1,2-Trichloroethane	BLOD	1.00	ug/L							
1,1-Dichloroethane	BLOD	1.00	ug/L							
1,1-Dichloroethylene	BLOD	1.00	ug/L							
1,1-Dichloropropene	BLOD	1.00	ug/L							
1,2,3-Trichlorobenzene	BLOD	1.00	ug/L							
1,2,3-Trichloropropane	BLOD	1.00	ug/L							
1,2,4-Trichlorobenzene	BLOD	1.00	ug/L							
1,2,4-Trimethylbenzene	BLOD	1.00	ug/L							

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0185 - SW5030B

Blank (BZL0185-BLK1)

Prepared & Analyzed: 12/05/2016

1,2-Dibromo-3-chloropropane (DBCP)	BLOD	4.00	ug/L
1,2-Dibromoethane (EDB)	BLOD	1.00	ug/L
1,2-Dichlorobenzene	BLOD	1.00	ug/L
1,2-Dichloroethane	BLOD	1.00	ug/L
1,2-Dichloropropane	BLOD	1.00	ug/L
1,3,5-Trimethylbenzene	BLOD	1.00	ug/L
1,3-Dichlorobenzene	BLOD	1.00	ug/L
1,3-Dichloropropane	BLOD	1.00	ug/L
1,4-Dichlorobenzene	BLOD	1.00	ug/L
2,2-Dichloropropane	BLOD	2.00	ug/L
2-Butanone (MEK)	BLOD	10.0	ug/L
2-Chlorotoluene	BLOD	1.00	ug/L
2-Hexanone (MBK)	BLOD	5.00	ug/L
4-Chlorotoluene	BLOD	1.00	ug/L
4-Isopropyltoluene	BLOD	1.00	ug/L
4-Methyl-2-pentanone (MIBK)	BLOD	5.00	ug/L
Acetone	BLOD	10.0	ug/L
Benzene	BLOD	1.00	ug/L
Bromobenzene	BLOD	1.00	ug/L
Bromochloromethane	BLOD	1.00	ug/L
Bromodichloromethane	BLOD	0.50	ug/L
Bromoform	BLOD	1.00	ug/L
Bromomethane	BLOD	1.00	ug/L
Carbon disulfide	BLOD	10.0	ug/L
Carbon tetrachloride	BLOD	1.00	ug/L

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0185 - SW5030B

Blank (BZL0185-BLK1)

Prepared & Analyzed: 12/05/2016

Chlorobenzene	BLOD	1.00	ug/L
Chloroethane	BLOD	1.00	ug/L
Chloroform	BLOD	0.50	ug/L
Chloromethane	BLOD	1.00	ug/L
cis-1,2-Dichloroethylene	BLOD	1.00	ug/L
cis-1,3-Dichloropropene	BLOD	1.00	ug/L
Dibromochloromethane	BLOD	1.00	ug/L
Dibromomethane	BLOD	1.00	ug/L
Dichlorodifluoromethane	BLOD	1.00	ug/L
Di-isopropyl ether (DIPE)	BLOD	5.00	ug/L
Ethylbenzene	BLOD	1.00	ug/L
Hexachlorobutadiene	BLOD	1.00	ug/L
Iodomethane	BLOD	10.0	ug/L
Isopropylbenzene	BLOD	1.00	ug/L
m+p-Xylenes	BLOD	2.00	ug/L
Methylene chloride	BLOD	4.00	ug/L
Methyl-t-butyl ether (MTBE)	BLOD	1.00	ug/L
Naphthalene	BLOD	1.00	ug/L
n-Butylbenzene	BLOD	1.00	ug/L
n-Propylbenzene	BLOD	1.00	ug/L
o-Xylene	BLOD	1.00	ug/L
sec-Butylbenzene	BLOD	1.00	ug/L
Styrene	BLOD	1.00	ug/L
tert-Butylbenzene	BLOD	1.00	ug/L
Tetrachloroethylene (PCE)	BLOD	1.00	ug/L

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Volatile Organic Compounds by GCMS - Quality Control

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Batch BZL0185 - SW5030B

Blank (BZL0185-BLK1)

Prepared & Analyzed: 12/05/2016

Toluene	BLOD	1.00	ug/L							
trans-1,2-Dichloroethylene	BLOD	1.00	ug/L							
trans-1,3-Dichloropropene	BLOD	1.00	ug/L							
Trichloroethylene	BLOD	1.00	ug/L							
Trichlorofluoromethane	BLOD	1.00	ug/L							
Vinyl acetate	BLOD	10.0	ug/L							
Vinyl chloride	BLOD	0.50	ug/L							
Xylenes, Total	BLOD	3.00	ug/L							
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<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	51.6		ug/L	50.0		103	70-120			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	46.5		ug/L	50.0		93.1	75-120			
<i>Surr: Dibromofluoromethane (Surr)</i>	51.0		ug/L	50.0		102	80-119			
<i>Surr: Toluene-d8 (Surr)</i>	50.2		ug/L	50.0		100	85-120			

LCS (BZL0185-BS1)

Prepared & Analyzed: 12/05/2016

1,1,1,2-Tetrachloroethane	50.6	0.4	ug/L	50.0		101	80-130			
1,1,1-Trichloroethane	53.3	1	ug/L	50.0		107	65-130			
1,1,2,2-Tetrachloroethane	44.2	0.4	ug/L	50.0		88.4	65-130			
1,1,2-Trichloroethane	48.9	1	ug/L	50.0		97.9	75-125			
1,1-Dichloroethane	49.6	1	ug/L	50.0		99.2	70-135			
1,1-Dichloroethylene	47.9	1	ug/L	50.0		95.8	70-130			
1,1-Dichloropropene	49.8	1	ug/L	50.0		99.6	75-135			
1,2,3-Trichlorobenzene	53.0	1	ug/L	50.0		106	55-140			
1,2,3-Trichloropropane	44.3	1	ug/L	50.0		88.7	75-125			
1,2,4-Trichlorobenzene	52.8	1	ug/L	50.0		106	65-135			
1,2,4-Trimethylbenzene	52.5	1	ug/L	50.0		105	75-130			

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Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0185 - SW5030B

LCS (BZL0185-BS1)

Prepared & Analyzed: 12/05/2016

1,2-Dibromo-3-chloropropane (DBCP)	40.2	4	ug/L	50.0		80.4	50-130			
1,2-Dibromoethane (EDB)	48.4	1	ug/L	50.0		96.9	80-120			
1,2-Dichlorobenzene	51.6	1	ug/L	50.0		103	70-120			
1,2-Dichloroethane	44.4	1	ug/L	50.0		88.7	70-130			
1,2-Dichloropropane	46.4	1	ug/L	50.0		92.7	75-125			
1,3,5-Trimethylbenzene	53.5	1	ug/L	50.0		107	75-125			
1,3-Dichlorobenzene	52.7	1	ug/L	50.0		105	75-125			
1,3-Dichloropropane	47.5	1	ug/L	50.0		95.0	75-125			
1,4-Dichlorobenzene	51.8	1	ug/L	50.0		104	75-125			
2,2-Dichloropropane	54.9	2	ug/L	50.0		110	70-135			
2-Butanone (MEK)	40.1	10	ug/L	50.0		80.3	30-150			
2-Chlorotoluene	53.6	1	ug/L	50.0		107	75-125			
2-Hexanone (MBK)	43.7	5	ug/L	50.0		87.5	55-130			
4-Chlorotoluene	51.8	1	ug/L	50.0		104	75-130			
4-Isopropyltoluene	53.0	1	ug/L	50.0		106	75-130			
4-Methyl-2-pentanone (MIBK)	42.8	5	ug/L	50.0		85.6	60-135			
Acetone	37.6	10	ug/L	50.0		75.3	40-140			
Benzene	51.8	1	ug/L	50.0		104	80-120			
Bromobenzene	53.2	1	ug/L	50.0		106	75-125			
Bromochloromethane	54.0	1	ug/L	50.0		108	65-130			
Bromodichloromethane	55.7	0.5	ug/L	50.0		111	75-120			
Bromoform	50.6	1	ug/L	50.0		101	70-130			
Bromomethane	47.3	1	ug/L	50.0		94.7	30-145			
Carbon disulfide	34.7	10	ug/L	50.0		69.5	35-160			
Carbon tetrachloride	57.9	1	ug/L	50.0		116	65-140			

Certificate of Analysis

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Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0185 - SW5030B

LCS (BZL0185-BS1)

Prepared & Analyzed: 12/05/2016

Chlorobenzene	52.4	1	ug/L	50.0		105	80-120			
Chloroethane	45.9	1	ug/L	50.0		91.8	60-135			
Chloroform	49.0	0.5	ug/L	50.0		97.9	65-135			
Chloromethane	39.5	1	ug/L	50.0		79.0	40-125			
cis-1,2-Dichloroethylene	51.1	1	ug/L	50.0		102	70-125			
cis-1,3-Dichloropropene	46.3	1	ug/L	50.0		92.6	70-130			
Dibromochloromethane	56.0	1	ug/L	50.0		112	60-135			
Dibromomethane	52.6	1	ug/L	50.0		105	75-125			
Dichlorodifluoromethane	47.2	1	ug/L	50.0		94.5	30-155			
Ethylbenzene	53.2	1	ug/L	50.0		106	75-125			
Hexachlorobutadiene	53.6	1	ug/L	50.0		107	50-140			
Isopropylbenzene	51.0	1	ug/L	50.0		102	75-125			
m+p-Xylenes	108	2	ug/L	100		108	75-130			
Methylene chloride	49.3	4	ug/L	50.0		98.6	55-140			
Methyl-t-butyl ether (MTBE)	49.8	1	ug/L	50.0		99.7	65-125			
Naphthalene	48.1	1	ug/L	50.0		96.1	55-140			
n-Butylbenzene	53.1	1	ug/L	50.0		106	70-135			
n-Propylbenzene	53.5	1	ug/L	50.0		107	70-130			
o-Xylene	53.2	1	ug/L	50.0		106	80-120			
sec-Butylbenzene	52.3	1	ug/L	50.0		105	70-125			
Styrene	53.2	1	ug/L	50.0		106	65-135			
tert-Butylbenzene	53.0	1	ug/L	50.0		106	70-130			
Tetrachloroethylene (PCE)	53.5	1	ug/L	50.0		107	45-150			
Toluene	51.4	1	ug/L	50.0		103	75-120			
trans-1,2-Dichloroethylene	52.8	1	ug/L	50.0		106	60-140			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0185 - SW5030B

LCS (BZL0185-BS1)

Prepared & Analyzed: 12/05/2016

trans-1,3-Dichloropropene	46.7	1	ug/L	50.0		93.4	55-140			
Trichloroethylene	51.2	1	ug/L	50.0		102	70-125			
Trichlorofluoromethane	48.6	1	ug/L	50.0		97.2	60-145			
Vinyl chloride	44.5	0.5	ug/L	50.0		89.0	50-145			
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	48.0		ug/L	50.0		96.1	70-120			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	49.3		ug/L	50.0		98.7	75-120			
<i>Surr: Dibromofluoromethane (Surr)</i>	49.7		ug/L	50.0		99.3	80-119			
<i>Surr: Toluene-d8 (Surr)</i>	48.7		ug/L	50.0		97.4	85-120			

Matrix Spike (BZL0185-MS1)

Source: 16L0077-01

Prepared & Analyzed: 12/05/2016

1,1,1,2-Tetrachloroethane	51.0	0.4	ug/L	50.0	BLOD	102	80-130			
1,1,1-Trichloroethane	53.8	1	ug/L	50.0	BLOD	108	65-130			
1,1,2,2-Tetrachloroethane	46.0	0.4	ug/L	50.0	BLOD	92.0	65-130			
1,1,2-Trichloroethane	51.6	1	ug/L	50.0	BLOD	103	75-125			
1,1-Dichloroethane	48.5	1	ug/L	50.0	BLOD	97.0	70-135			
1,1-Dichloroethylene	47.7	1	ug/L	50.0	BLOD	95.3	70-130			
1,1-Dichloropropene	49.5	1	ug/L	50.0	BLOD	98.9	75-135			
1,2,3-Trichlorobenzene	52.6	1	ug/L	50.0	BLOD	105	55-140			
1,2,3-Trichloropropane	45.2	1	ug/L	50.0	BLOD	90.5	75-125			
1,2,4-Trichlorobenzene	51.4	1	ug/L	50.0	BLOD	103	65-135			
1,2,4-Trimethylbenzene	51.4	1	ug/L	50.0	BLOD	103	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	44.6	4	ug/L	50.0	BLOD	89.2	50-130			
1,2-Dibromoethane (EDB)	49.7	1	ug/L	50.0	BLOD	99.5	80-120			
1,2-Dichlorobenzene	50.3	1	ug/L	50.0	BLOD	101	70-120			
1,2-Dichloroethane	44.7	1	ug/L	50.0	BLOD	89.4	70-130			

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0185 - SW5030B

Matrix Spike (BZL0185-MS1)	Source: 16L0077-01			Prepared & Analyzed: 12/05/2016						
1,2-Dichloropropane	47.4	1	ug/L	50.0	BLOD	94.7	75-125			
1,3,5-Trimethylbenzene	52.0	1	ug/L	50.0	BLOD	104	75-125			
1,3-Dichlorobenzene	50.8	1	ug/L	50.0	BLOD	102	75-125			
1,3-Dichloropropane	49.5	1	ug/L	50.0	BLOD	99.0	75-125			
1,4-Dichlorobenzene	50.4	1	ug/L	50.0	BLOD	101	75-125			
2,2-Dichloropropane	51.8	2	ug/L	50.0	BLOD	104	70-135			
2-Butanone (MEK)	45.8	10	ug/L	50.0	BLOD	91.6	30-150			
2-Chlorotoluene	51.8	1	ug/L	50.0	BLOD	104	75-125			
2-Hexanone (MBK)	45.6	5	ug/L	50.0	BLOD	91.2	55-130			
4-Chlorotoluene	49.8	1	ug/L	50.0	BLOD	99.7	75-130			
4-Isopropyltoluene	50.8	1	ug/L	50.0	BLOD	102	75-130			
4-Methyl-2-pentanone (MIBK)	47.2	5	ug/L	50.0	BLOD	94.3	60-135			
Acetone	45.5	10	ug/L	50.0	BLOD	86.7	40-140			
Benzene	51.3	1	ug/L	50.0	BLOD	103	80-120			
Bromobenzene	53.5	1	ug/L	50.0	BLOD	107	75-125			
Bromochloromethane	54.4	1	ug/L	50.0	BLOD	109	65-130			
Bromodichloromethane	56.8	0.5	ug/L	50.0	BLOD	114	75-120			
Bromoform	51.0	1	ug/L	50.0	BLOD	102	70-130			
Bromomethane	47.2	1	ug/L	50.0	BLOD	94.4	30-145			
Carbon disulfide	35.0	10	ug/L	50.0	BLOD	70.1	35-160			
Carbon tetrachloride	57.5	1	ug/L	50.0	BLOD	115	65-140			
Chlorobenzene	51.7	1	ug/L	50.0	BLOD	103	80-120			
Chloroethane	46.4	1	ug/L	50.0	BLOD	92.8	60-135			
Chloroform	48.7	0.5	ug/L	50.0	BLOD	97.5	65-135			
Chloromethane	40.6	1	ug/L	50.0	BLOD	81.3	40-125			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0185 - SW5030B

Matrix Spike (BZL0185-MS1)	Source: 16L0077-01			Prepared & Analyzed: 12/05/2016						
cis-1,2-Dichloroethylene	51.8	1	ug/L	50.0	BLOD	104	70-125			
cis-1,3-Dichloropropene	46.8	1	ug/L	50.0	BLOD	93.6	70-130			
Dibromochloromethane	58.8	1	ug/L	50.0	BLOD	118	60-135			
Dibromomethane	55.1	1	ug/L	50.0	BLOD	110	75-125			
Dichlorodifluoromethane	49.3	1	ug/L	50.0	BLOD	98.7	30-155			
Ethylbenzene	51.8	1	ug/L	50.0	BLOD	104	75-125			
Hexachlorobutadiene	50.6	1	ug/L	50.0	BLOD	101	50-140			
Isopropylbenzene	49.9	1	ug/L	50.0	BLOD	99.7	75-125			
m+p-Xylenes	107	2	ug/L	100	BLOD	107	75-130			
Methylene chloride	48.7	4	ug/L	50.0	BLOD	96.9	55-140			
Methyl-t-butyl ether (MTBE)	51.8	1	ug/L	50.0	BLOD	104	65-125			
Naphthalene	50.4	1	ug/L	50.0	BLOD	100	55-140			
n-Butylbenzene	51.2	1	ug/L	50.0	BLOD	102	70-135			
n-Propylbenzene	50.9	1	ug/L	50.0	BLOD	102	70-130			
o-Xylene	51.4	1	ug/L	50.0	BLOD	103	80-120			
sec-Butylbenzene	50.8	1	ug/L	50.0	BLOD	102	70-125			
Styrene	52.2	1	ug/L	50.0	BLOD	104	65-135			
tert-Butylbenzene	51.8	1	ug/L	50.0	BLOD	104	70-130			
Tetrachloroethylene (PCE)	51.2	1	ug/L	50.0	BLOD	102	45-150			
Toluene	51.4	1	ug/L	50.0	BLOD	103	75-120			
trans-1,2-Dichloroethylene	49.5	1	ug/L	50.0	BLOD	98.9	60-140			
trans-1,3-Dichloropropene	47.9	1	ug/L	50.0	BLOD	95.8	55-140			
Trichloroethylene	50.4	1	ug/L	50.0	BLOD	101	70-125			
Trichlorofluoromethane	49.3	1	ug/L	50.0	BLOD	98.7	60-145			
Vinyl chloride	43.9	0.5	ug/L	50.0	BLOD	87.9	50-145			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0185 - SW5030B

Matrix Spike (BZL0185-MS1)

Source: 16L0077-01

Prepared & Analyzed: 12/05/2016

<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	46.5		ug/L	50.0		93.1	70-120		
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	49.4		ug/L	50.0		98.9	75-120		
<i>Surr: Dibromofluoromethane (Surr)</i>	50.0		ug/L	50.0		100	80-119		
<i>Surr: Toluene-d8 (Surr)</i>	49.8		ug/L	50.0		99.7	85-120		

Matrix Spike Dup (BZL0185-MSD1)

Source: 16L0077-01

Prepared & Analyzed: 12/05/2016

1,1,1,2-Tetrachloroethane	50.7	0.4	ug/L	50.0	BLOD	101	80-130	0.668	30
1,1,1-Trichloroethane	52.1	1	ug/L	50.0	BLOD	104	65-130	3.23	30
1,1,2,2-Tetrachloroethane	45.7	0.4	ug/L	50.0	BLOD	91.4	65-130	0.611	30
1,1,2-Trichloroethane	48.6	1	ug/L	50.0	BLOD	97.2	75-125	5.93	30
1,1-Dichloroethane	48.4	1	ug/L	50.0	BLOD	96.8	70-135	0.268	30
1,1-Dichloroethylene	46.3	1	ug/L	50.0	BLOD	92.7	70-130	2.83	30
1,1-Dichloropropene	47.7	1	ug/L	50.0	BLOD	95.3	75-135	3.71	30
1,2,3-Trichlorobenzene	52.3	1	ug/L	50.0	BLOD	105	55-140	0.553	30
1,2,3-Trichloropropane	44.7	1	ug/L	50.0	BLOD	89.4	75-125	1.16	30
1,2,4-Trichlorobenzene	50.9	1	ug/L	50.0	BLOD	102	65-135	0.939	30
1,2,4-Trimethylbenzene	51.1	1	ug/L	50.0	BLOD	102	75-130	0.449	30
1,2-Dibromo-3-chloropropane (DBCP)	42.4	4	ug/L	50.0	BLOD	84.7	50-130	5.11	30
1,2-Dibromoethane (EDB)	49.9	1	ug/L	50.0	BLOD	99.9	80-120	0.401	30
1,2-Dichlorobenzene	49.5	1	ug/L	50.0	BLOD	99.1	70-120	1.56	30
1,2-Dichloroethane	44.1	1	ug/L	50.0	BLOD	88.2	70-130	1.31	30
1,2-Dichloropropane	45.7	1	ug/L	50.0	BLOD	91.5	75-125	3.48	30
1,3,5-Trimethylbenzene	51.2	1	ug/L	50.0	BLOD	102	75-125	1.51	30
1,3-Dichlorobenzene	50.9	1	ug/L	50.0	BLOD	102	75-125	0.0984	30
1,3-Dichloropropane	48.4	1	ug/L	50.0	BLOD	96.8	75-125	2.25	30

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0185 - SW5030B

Matrix Spike Dup (BZL0185-MSD1)	Source: 16L0077-01			Prepared & Analyzed: 12/05/2016						
1,4-Dichlorobenzene	49.6	1	ug/L	50.0	BLOD	99.3	75-125	1.46	30	
2,2-Dichloropropane	51.2	2	ug/L	50.0	BLOD	102	70-135	1.11	30	
2-Butanone (MEK)	44.8	10	ug/L	50.0	BLOD	89.7	30-150	2.12	30	
2-Chlorotoluene	51.6	1	ug/L	50.0	BLOD	103	75-125	0.386	30	
2-Hexanone (MBK)	47.0	5	ug/L	50.0	BLOD	93.9	55-130	2.94	30	
4-Chlorotoluene	49.6	1	ug/L	50.0	BLOD	99.2	75-130	0.543	30	
4-Isopropyltoluene	51.0	1	ug/L	50.0	BLOD	102	75-130	0.353	30	
4-Methyl-2-pentanone (MIBK)	44.5	5	ug/L	50.0	BLOD	89.0	60-135	5.85	30	
Acetone	42.1	10	ug/L	50.0	BLOD	79.9	40-140	7.69	30	
Benzene	49.9	1	ug/L	50.0	BLOD	99.9	80-120	2.75	30	
Bromobenzene	53.5	1	ug/L	50.0	BLOD	107	75-125	0.0187	30	
Bromochloromethane	53.2	1	ug/L	50.0	BLOD	106	65-130	2.23	30	
Bromodichloromethane	55.9	0.5	ug/L	50.0	BLOD	112	75-120	1.49	30	
Bromoform	50.9	1	ug/L	50.0	BLOD	102	70-130	0.275	30	
Bromomethane	47.1	1	ug/L	50.0	BLOD	94.3	30-145	0.106	30	
Carbon disulfide	33.9	10	ug/L	50.0	BLOD	67.8	35-160	3.25	30	
Carbon tetrachloride	56.4	1	ug/L	50.0	BLOD	113	65-140	1.91	30	
Chlorobenzene	51.5	1	ug/L	50.0	BLOD	103	80-120	0.368	30	
Chloroethane	46.6	1	ug/L	50.0	BLOD	93.2	60-135	0.452	30	
Chloroform	47.7	0.5	ug/L	50.0	BLOD	95.4	65-135	2.14	30	
Chloromethane	40.0	1	ug/L	50.0	BLOD	80.1	40-125	1.46	30	
cis-1,2-Dichloroethylene	50.6	1	ug/L	50.0	BLOD	101	70-125	2.48	30	
cis-1,3-Dichloropropene	45.5	1	ug/L	50.0	BLOD	91.1	70-130	2.71	30	
Dibromochloromethane	57.1	1	ug/L	50.0	BLOD	114	60-135	2.93	30	
Dibromomethane	53.4	1	ug/L	50.0	BLOD	107	75-125	3.00	30	

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0185 - SW5030B

Matrix Spike Dup (BZL0185-MSD1)	Source: 16L0077-01			Prepared & Analyzed: 12/05/2016						
Dichlorodifluoromethane	47.3	1	ug/L	50.0	BLOD	94.7	30-155	4.16	30	
Ethylbenzene	52.2	1	ug/L	50.0	BLOD	104	75-125	0.712	30	
Hexachlorobutadiene	50.6	1	ug/L	50.0	BLOD	101	50-140	0.0198	30	
Isopropylbenzene	49.8	1	ug/L	50.0	BLOD	99.6	75-125	0.161	30	
m+p-Xylenes	105	2	ug/L	100	BLOD	105	75-130	1.24	30	
Methylene chloride	48.4	4	ug/L	50.0	BLOD	96.4	55-140	0.556	30	
Methyl-t-butyl ether (MTBE)	51.0	1	ug/L	50.0	BLOD	102	65-125	1.55	30	
Naphthalene	50.5	1	ug/L	50.0	BLOD	101	55-140	0.218	30	
n-Butylbenzene	50.9	1	ug/L	50.0	BLOD	102	70-135	0.685	30	
n-Propylbenzene	50.9	1	ug/L	50.0	BLOD	102	70-130	0.0393	30	
o-Xylene	52.0	1	ug/L	50.0	BLOD	104	80-120	1.20	30	
sec-Butylbenzene	50.6	1	ug/L	50.0	BLOD	101	70-125	0.473	30	
Styrene	52.4	1	ug/L	50.0	BLOD	105	65-135	0.382	30	
tert-Butylbenzene	51.6	1	ug/L	50.0	BLOD	103	70-130	0.580	30	
Tetrachloroethylene (PCE)	51.8	1	ug/L	50.0	BLOD	104	45-150	1.09	30	
Toluene	50.9	1	ug/L	50.0	BLOD	102	75-120	0.977	30	
trans-1,2-Dichloroethylene	48.2	1	ug/L	50.0	BLOD	96.4	60-140	2.64	30	
trans-1,3-Dichloropropene	46.8	1	ug/L	50.0	BLOD	93.5	55-140	2.39	30	
Trichloroethylene	49.3	1	ug/L	50.0	BLOD	98.5	70-125	2.21	30	
Trichlorofluoromethane	48.4	1	ug/L	50.0	BLOD	96.9	60-145	1.80	30	
Vinyl chloride	43.1	0.5	ug/L	50.0	BLOD	86.2	50-145	1.91	30	
<hr/>										
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>47.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.8</i>	<i>70-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>50.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>48.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>97.5</i>	<i>80-119</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>49.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.0</i>	<i>85-120</i>			

Certificate of Analysis

Client Name: Timmons Group
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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0185 - SW5030B

Matrix Spike Dup (BZL0185-MSD1) Source: 16L0077-01 Prepared & Analyzed: 12/05/2016

Batch BZL0206 - SW5030B

Blank (BZL0206-BLK1) Prepared & Analyzed: 12/06/2016

1,1,1,2-Tetrachloroethane	BLOD	5.00	ug/kg
1,1,1-Trichloroethane	BLOD	5.00	ug/kg
1,1,2,2-Tetrachloroethane	BLOD	5.00	ug/kg
1,1,2-Trichloroethane	BLOD	5.00	ug/kg
1,1-Dichloroethane	BLOD	5.00	ug/kg
1,1-Dichloroethylene	BLOD	5.00	ug/kg
1,1-Dichloropropene	BLOD	5.00	ug/kg
1,2,3-Trichlorobenzene	BLOD	5.00	ug/kg
1,2,3-Trichloropropane	BLOD	5.00	ug/kg
1,2,4-Trichlorobenzene	BLOD	5.00	ug/kg
1,2,4-Trimethylbenzene	BLOD	5.00	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	BLOD	5.00	ug/kg
1,2-Dibromoethane (EDB)	BLOD	5.00	ug/kg
1,2-Dichlorobenzene	BLOD	5.00	ug/kg
1,2-Dichloroethane	BLOD	5.00	ug/kg
1,2-Dichloropropane	BLOD	5.00	ug/kg
1,3,5-Trimethylbenzene	BLOD	5.00	ug/kg
1,3-Dichlorobenzene	BLOD	5.00	ug/kg
1,3-Dichloropropane	BLOD	5.00	ug/kg
1,4-Dichlorobenzene	BLOD	5.00	ug/kg
2,2-Dichloropropane	BLOD	5.00	ug/kg
2-Butanone (MEK)	BLOD	5.00	ug/kg

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0206 - SW5030B

Blank (BZL0206-BLK1)

Prepared & Analyzed: 12/06/2016

2-Chlorotoluene	BLOD	5.00	ug/kg
2-Hexanone (MBK)	BLOD	5.00	ug/kg
4-Chlorotoluene	BLOD	5.00	ug/kg
4-Isopropyltoluene	BLOD	5.00	ug/kg
4-Methyl-2-pentanone (MIBK)	BLOD	5.00	ug/kg
Acetone	BLOD	10.0	ug/kg
Benzene	BLOD	5.00	ug/kg
Bromobenzene	BLOD	5.00	ug/kg
Bromochloromethane	BLOD	5.00	ug/kg
Bromodichloromethane	BLOD	5.00	ug/kg
Bromoform	BLOD	5.00	ug/kg
Bromomethane	BLOD	5.00	ug/kg
Carbon disulfide	BLOD	5.00	ug/kg
Carbon tetrachloride	BLOD	5.00	ug/kg
Chlorobenzene	BLOD	5.00	ug/kg
Chloroethane	BLOD	5.00	ug/kg
Chloroform	BLOD	5.00	ug/kg
Chloromethane	BLOD	5.00	ug/kg
cis-1,2-Dichloroethylene	BLOD	5.00	ug/kg
cis-1,3-Dichloropropene	BLOD	5.00	ug/kg
Dibromochloromethane	BLOD	5.00	ug/kg
Dibromomethane	BLOD	5.00	ug/kg
Dichlorodifluoromethane	BLOD	5.00	ug/kg
Di-isopropyl ether (DIPE)	BLOD	5.00	ug/kg
Ethylbenzene	BLOD	5.00	ug/kg

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0206 - SW5030B

Blank (BZL0206-BLK1)

Prepared & Analyzed: 12/06/2016

Hexachlorobutadiene	BLOD	5.00	ug/kg							
Iodomethane	BLOD	5.00	ug/kg							
Isopropylbenzene	BLOD	5.00	ug/kg							
m+p-Xylenes	BLOD	5.00	ug/kg							
Methylene chloride	BLOD	5.00	ug/kg							
Methyl-t-butyl ether (MTBE)	BLOD	5.00	ug/kg							
Naphthalene	BLOD	5.00	ug/kg							
n-Butylbenzene	BLOD	5.00	ug/kg							
n-Propylbenzene	BLOD	5.00	ug/kg							
o-Xylene	BLOD	5.00	ug/kg							
sec-Butylbenzene	BLOD	5.00	ug/kg							
Styrene	BLOD	5.00	ug/kg							
tert-Butylbenzene	BLOD	5.00	ug/kg							
Tetrachloroethylene (PCE)	BLOD	5.00	ug/kg							
Toluene	BLOD	5.00	ug/kg							
trans-1,2-Dichloroethylene	BLOD	5.00	ug/kg							
trans-1,3-Dichloropropene	BLOD	5.00	ug/kg							
Trichloroethylene	BLOD	5.00	ug/kg							
Trichlorofluoromethane	BLOD	5.00	ug/kg							
Vinyl acetate	BLOD	10.0	ug/kg							
Vinyl chloride	BLOD	5.00	ug/kg							
Xylenes, Total	BLOD	15.0	ug/kg							
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>47.1</i>		ug/kg	<i>50.0</i>		<i>94.2</i>	<i>80-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>47.9</i>		ug/kg	<i>50.0</i>		<i>95.8</i>	<i>85-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>49.0</i>		ug/kg	<i>50.0</i>		<i>98.1</i>	<i>80-119</i>			

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0206 - SW5030B

Blank (BZL0206-BLK1)

Prepared & Analyzed: 12/06/2016

<i>Surr: Toluene-d8 (Surr)</i>	49.2		ug/kg	50.0		98.3	85-115
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LCS (BZL0206-BS1)

Prepared & Analyzed: 12/06/2016

1,1,1,2-Tetrachloroethane	48.8	5	ug/L	50.0		97.5	75-125
1,1,1-Trichloroethane	50.2	5	ug/L	50.0		100	70-135
1,1,2,2-Tetrachloroethane	43.3	5	ug/L	50.0		86.6	55-130
1,1,2-Trichloroethane	49.5	5	ug/L	50.0		99.0	60-125
1,1-Dichloroethane	45.8	5	ug/L	50.0		91.7	75-125
1,1-Dichloroethylene	45.9	5	ug/L	50.0		91.9	65-135
1,1-Dichloropropene	46.8	5	ug/L	50.0		93.6	70-135
1,2,3-Trichlorobenzene	51.6	5	ug/L	50.0		103	60-135
1,2,3-Trichloropropane	44.7	5	ug/L	50.0		89.3	65-130
1,2,4-Trichlorobenzene	51.2	5	ug/L	50.0		102	65-130
1,2,4-Trimethylbenzene	48.7	5	ug/L	50.0		97.4	65-135
1,2-Dibromo-3-chloropropane (DBCP)	42.4	5	ug/L	50.0		84.9	40-135
1,2-Dibromoethane (EDB)	48.5	5	ug/L	50.0		96.9	70-125
1,2-Dichlorobenzene	47.8	5	ug/L	50.0		95.7	75-120
1,2-Dichloroethane	43.4	5	ug/L	50.0		86.7	70-135
1,2-Dichloropropane	44.6	5	ug/L	50.0		89.1	70-120
1,3,5-Trimethylbenzene	48.7	5	ug/L	50.0		97.3	65-135
1,3-Dichlorobenzene	49.0	5	ug/L	50.0		98.1	70-125
1,3-Dichloropropane	46.8	5	ug/L	50.0		93.5	75-125
1,4-Dichlorobenzene	47.8	5	ug/L	50.0		95.7	70-125
2,2-Dichloropropane	51.8	5	ug/L	50.0		104	65-135
2-Butanone (MEK)	47.0	5	ug/L	50.0		94.0	30-160

Certificate of Analysis

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Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0206 - SW5030B

LCS (BZL0206-BS1)

Prepared & Analyzed: 12/06/2016

2-Chlorotoluene	48.6	5	ug/L	50.0		97.1	70-130			
2-Hexanone (MBK)	47.1	5	ug/L	50.0		94.3	45-145			
4-Chlorotoluene	47.7	5	ug/L	50.0		95.3	75-125			
4-Isopropyltoluene	48.7	5	ug/L	50.0		97.4	75-135			
4-Methyl-2-pentanone (MIBK)	48.3	5	ug/L	50.0		96.6	45-145			
Acetone	37.9	10	ug/L	50.0		75.9	20-160			
Benzene	49.2	5	ug/L	50.0		98.4	75-125			
Bromobenzene	52.0	5	ug/L	50.0		104	65-120			
Bromochloromethane	52.2	5	ug/L	50.0		104	70-125			
Bromodichloromethane	54.8	5	ug/L	50.0		110	70-130			
Bromoform	50.0	5	ug/L	50.0		100	55-135			
Bromomethane	47.0	5	ug/L	50.0		93.9	30-160			
Carbon disulfide	33.4	5	ug/L	50.0		66.8	45-160			
Carbon tetrachloride	54.0	5	ug/L	50.0		108	65-135			
Chlorobenzene	49.1	5	ug/L	50.0		98.3	75-125			
Chloroethane	44.6	5	ug/L	50.0		89.1	40-155			
Chloroform	46.6	5	ug/L	50.0		93.1	70-125			
Chloromethane	38.6	5	ug/L	50.0		77.2	50-130			
cis-1,2-Dichloroethylene	49.1	5	ug/L	50.0		98.2	65-125			
cis-1,3-Dichloropropene	44.9	5	ug/L	50.0		89.8	70-125			
Dibromochloromethane	56.7	5	ug/L	50.0		113	65-130			
Dibromomethane	52.4	5	ug/L	50.0		105	75-130			
Dichlorodifluoromethane	46.6	5	ug/L	50.0		93.2	35-135			
Ethylbenzene	49.4	5	ug/L	50.0		98.8	75-125			
Hexachlorobutadiene	49.2	5	ug/L	50.0		98.5	55-140			

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0206 - SW5030B

LCS (BZL0206-BS1)

Prepared & Analyzed: 12/06/2016

Isopropylbenzene	47.8	5	ug/L	50.0		95.6	75-130			
m+p-Xylenes	101	5	ug/L	100		101	80-125			
Methylene chloride	47.5	5	ug/L	50.0		94.9	55-140			
Methyl-t-butyl ether (MTBE)	49.1	5	ug/L	50.0		98.1	65-125			
Naphthalene	49.1	5	ug/L	50.0		98.1	40-125			
n-Butylbenzene	48.9	5	ug/L	50.0		97.8	65-140			
n-Propylbenzene	48.7	5	ug/L	50.0		97.4	65-135			
o-Xylene	50.1	5	ug/L	50.0		100	75-125			
sec-Butylbenzene	47.9	5	ug/L	50.0		95.9	65-130			
Styrene	50.2	5	ug/L	50.0		100	75-125			
tert-Butylbenzene	48.8	5	ug/L	50.0		97.7	65-130			
Tetrachloroethylene (PCE)	72.7	5	ug/L	50.0		145	65-140			L
Toluene	48.7	5	ug/L	50.0		97.4	70-125			
trans-1,2-Dichloroethylene	46.0	5	ug/L	50.0		91.9	65-135			
trans-1,3-Dichloropropene	47.0	5	ug/L	50.0		94.0	65-125			
Trichloroethylene	49.7	5	ug/L	50.0		99.4	75-125			
Trichlorofluoromethane	45.7	5	ug/L	50.0		91.5	25-185			
Vinyl chloride	42.1	5	ug/L	50.0		84.2	60-125			
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<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	48.9		ug/kg	50.0		97.9	80-120			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	50.1		ug/kg	50.0		100	85-120			
<i>Surr: Dibromofluoromethane (Surr)</i>	49.2		ug/kg	50.0		98.3	80-119			
<i>Surr: Toluene-d8 (Surr)</i>	49.5		ug/kg	50.0		99.0	85-115			

Matrix Spike (BZL0206-MS1)

Source: 16L0076-01

Prepared & Analyzed: 12/06/2016

1,1,1,2-Tetrachloroethane	40.2	5	ug/L	50.0	BLOD	80.4	75-125			
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Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0206 - SW5030B

Matrix Spike (BZL0206-MS1)	Source: 16L0076-01			Prepared & Analyzed: 12/06/2016						
1,1,1-Trichloroethane	40.4	5	ug/L	50.0	BLOD	80.9	70-135			
1,1,2,2-Tetrachloroethane	41.5	5	ug/L	50.0	BLOD	83.0	55-130			
1,1,2-Trichloroethane	41.1	5	ug/L	50.0	BLOD	82.1	60-125			
1,1-Dichloroethane	38.9	5	ug/L	50.0	BLOD	77.8	75-125			
1,1-Dichloroethylene	43.3	5	ug/L	50.0	BLOD	86.5	65-135			
1,1-Dichloropropene	41.0	5	ug/L	50.0	BLOD	82.1	70-135			
1,2,3-Trichlorobenzene	41.6	5	ug/L	50.0	BLOD	82.6	60-135			
1,2,3-Trichloropropane	40.0	5	ug/L	50.0	BLOD	80.0	65-130			
1,2,4-Trichlorobenzene	40.7	5	ug/L	50.0	BLOD	80.8	65-130			
1,2,4-Trimethylbenzene	64.1	5	ug/L	50.0	BLOD	128	65-135			
1,2-Dibromo-3-chloropropane (DBCP)	44.8	5	ug/L	50.0	BLOD	89.6	40-135			
1,2-Dibromoethane (EDB)	41.0	5	ug/L	50.0	BLOD	82.1	70-125			
1,2-Dichlorobenzene	39.8	5	ug/L	50.0	BLOD	79.7	75-120			
1,2-Dichloroethane	34.0	5	ug/L	50.0	BLOD	67.9	70-135			M
1,2-Dichloropropane	39.9	5	ug/L	50.0	BLOD	79.8	70-120			
1,3,5-Trimethylbenzene	47.1	5	ug/L	50.0	BLOD	94.1	65-135			
1,3-Dichlorobenzene	40.8	5	ug/L	50.0	BLOD	81.6	70-125			
1,3-Dichloropropane	39.1	5	ug/L	50.0	BLOD	78.3	75-125			
1,4-Dichlorobenzene	40.0	5	ug/L	50.0	BLOD	80.1	70-125			
2,2-Dichloropropane	39.3	5	ug/L	50.0	BLOD	78.6	65-135			
2-Butanone (MEK)	58.0	5	ug/L	50.0	BLOD	116	30-160			
2-Chlorotoluene	41.2	5	ug/L	50.0	BLOD	82.5	70-130			
2-Hexanone (MBK)	51.2	5	ug/L	50.0	BLOD	102	45-145			
4-Chlorotoluene	40.2	5	ug/L	50.0	BLOD	80.5	75-125			
4-Isopropyltoluene	41.6	5	ug/L	50.0	BLOD	83.2	75-135			

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0206 - SW5030B

Matrix Spike (BZL0206-MS1)	Source: 16L0076-01			Prepared & Analyzed: 12/06/2016						
4-Methyl-2-pentanone (MIBK)	50.2	5	ug/L	50.0	BLOD	100	45-145			
Acetone	52.9	10	ug/L	50.0	BLOD	106	20-160			
Benzene	42.7	5	ug/L	50.0	BLOD	85.4	75-125			
Bromobenzene	44.4	5	ug/L	50.0	BLOD	88.9	65-120			
Bromochloromethane	44.5	5	ug/L	50.0	BLOD	88.9	70-125			
Bromodichloromethane	43.2	5	ug/L	50.0	BLOD	86.3	70-130			
Bromoform	43.5	5	ug/L	50.0	BLOD	86.9	55-135			
Bromomethane	29.9	5	ug/L	50.0	BLOD	59.9	30-160			
Carbon disulfide	33.4	5	ug/L	50.0	BLOD	66.7	45-160			
Carbon tetrachloride	41.6	5	ug/L	50.0	BLOD	83.2	65-135			
Chlorobenzene	42.4	5	ug/L	50.0	BLOD	84.8	75-125			
Chloroethane	42.1	5	ug/L	50.0	BLOD	84.2	40-155			
Chloroform	37.9	5	ug/L	50.0	BLOD	75.8	70-125			
Chloromethane	35.7	5	ug/L	50.0	BLOD	71.3	50-130			
cis-1,2-Dichloroethylene	41.3	5	ug/L	50.0	BLOD	82.5	65-125			
cis-1,3-Dichloropropene	36.6	5	ug/L	50.0	BLOD	73.3	70-125			
Dibromochloromethane	44.1	5	ug/L	50.0	BLOD	88.1	65-130			
Dibromomethane	42.9	5	ug/L	50.0	BLOD	85.8	75-130			
Dichlorodifluoromethane	36.7	5	ug/L	50.0	BLOD	73.3	35-135			
Ethylbenzene	45.6	5	ug/L	50.0	BLOD	91.3	75-125			
Hexachlorobutadiene	39.9	5	ug/L	50.0	BLOD	79.4	55-140			
Isopropylbenzene	41.9	5	ug/L	50.0	BLOD	83.8	75-130			
m+p-Xylenes	93.2	5	ug/L	100	BLOD	93.2	80-125			
Methylene chloride	46.0	5	ug/L	50.0	BLOD	91.0	55-140			
Methyl-t-butyl ether (MTBE)	43.7	5	ug/L	50.0	BLOD	87.3	65-125			

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0206 - SW5030B

Matrix Spike (BZL0206-MS1)	Source: 16L0076-01			Prepared & Analyzed: 12/06/2016						
Naphthalene	59.6	5	ug/L	50.0	BLOD	119	40-125			
n-Butylbenzene	43.1	5	ug/L	50.0	BLOD	86.2	65-140			
n-Propylbenzene	44.1	5	ug/L	50.0	BLOD	88.2	65-135			
o-Xylene	42.0	5	ug/L	50.0	BLOD	84.0	75-125			
sec-Butylbenzene	41.4	5	ug/L	50.0	BLOD	82.7	65-130			
Styrene	44.9	5	ug/L	50.0	BLOD	89.8	75-125			
tert-Butylbenzene	41.4	5	ug/L	50.0	BLOD	82.7	65-130			
Tetrachloroethylene (PCE)	45.8	5	ug/L	50.0	BLOD	91.7	65-140			
Toluene	42.7	5	ug/L	50.0	BLOD	85.4	70-125			
trans-1,2-Dichloroethylene	40.6	5	ug/L	50.0	BLOD	81.3	65-135			
trans-1,3-Dichloropropene	37.4	5	ug/L	50.0	BLOD	74.8	65-125			
Trichloroethylene	42.2	5	ug/L	50.0	BLOD	84.3	75-125			
Trichlorofluoromethane	37.7	5	ug/L	50.0	BLOD	75.4	25-185			
Vinyl chloride	31.4	5	ug/L	50.0	BLOD	62.8	60-125			
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<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>4700</i>		<i>ug/kg</i>	<i>5000</i>		<i>94.1</i>	<i>80-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>5110</i>		<i>ug/kg</i>	<i>5000</i>		<i>102</i>	<i>85-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>4580</i>		<i>ug/kg</i>	<i>5000</i>		<i>91.7</i>	<i>80-119</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>4950</i>		<i>ug/kg</i>	<i>5000</i>		<i>99.0</i>	<i>85-115</i>			

Matrix Spike Dup (BZL0206-MSD1)	Source: 16L0076-01			Prepared & Analyzed: 12/06/2016						
1,1,1,2-Tetrachloroethane	49.1	5	ug/L	50.0	BLOD	98.2	75-125		30	
1,1,1-Trichloroethane	48.0	5	ug/L	50.0	BLOD	96.1	70-135		30	
1,1,2,2-Tetrachloroethane	48.4	5	ug/L	50.0	BLOD	96.7	55-130		30	
1,1,2-Trichloroethane	47.5	5	ug/L	50.0	BLOD	95.0	60-125		30	
1,1-Dichloroethane	45.3	5	ug/L	50.0	BLOD	90.6	75-125		30	

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0206 - SW5030B

Matrix Spike Dup (BZL0206-MSD1)	Source: 16L0076-01			Prepared & Analyzed: 12/06/2016						
1,1-Dichloroethylene	49.6	5	ug/L	50.0	BLOD	99.2	65-135		30	
1,1-Dichloropropene	49.8	5	ug/L	50.0	BLOD	99.6	70-135		30	
1,2,3-Trichlorobenzene	48.7	5	ug/L	50.0	BLOD	96.9	60-135		30	
1,2,3-Trichloropropane	46.6	5	ug/L	50.0	BLOD	93.3	65-130		30	
1,2,4-Trichlorobenzene	48.4	5	ug/L	50.0	BLOD	96.2	65-130		30	
1,2,4-Trimethylbenzene	58.1	5	ug/L	50.0	BLOD	116	65-135		30	
1,2-Dibromo-3-chloropropane (DBCP)	52.8	5	ug/L	50.0	BLOD	106	40-135		30	
1,2-Dibromoethane (EDB)	48.8	5	ug/L	50.0	BLOD	97.5	70-125		30	
1,2-Dichlorobenzene	48.8	5	ug/L	50.0	BLOD	97.6	75-120		30	
1,2-Dichloroethane	38.6	5	ug/L	50.0	BLOD	77.1	70-135		30	
1,2-Dichloropropane	46.8	5	ug/L	50.0	BLOD	93.7	70-120		30	
1,3,5-Trimethylbenzene	52.7	5	ug/L	50.0	BLOD	105	65-135		30	
1,3-Dichlorobenzene	49.0	5	ug/L	50.0	BLOD	98.1	70-125		30	
1,3-Dichloropropane	46.0	5	ug/L	50.0	BLOD	92.0	75-125		30	
1,4-Dichlorobenzene	48.5	5	ug/L	50.0	BLOD	97.0	70-125		30	
2,2-Dichloropropane	47.0	5	ug/L	50.0	BLOD	94.0	65-135		30	
2-Butanone (MEK)	54.6	5	ug/L	50.0	BLOD	109	30-160		30	
2-Chlorotoluene	50.7	5	ug/L	50.0	BLOD	101	70-130		30	
2-Hexanone (MBK)	51.0	5	ug/L	50.0	BLOD	102	45-145		30	
4-Chlorotoluene	48.8	5	ug/L	50.0	BLOD	97.7	75-125		30	
4-Isopropyltoluene	50.8	5	ug/L	50.0	BLOD	102	75-135		30	
4-Methyl-2-pentanone (MIBK)	49.0	5	ug/L	50.0	BLOD	98.0	45-145		30	
Acetone	53.0	10	ug/L	50.0	BLOD	106	20-160		30	
Benzene	51.8	5	ug/L	50.0	BLOD	104	75-125		30	
Bromobenzene	52.9	5	ug/L	50.0	BLOD	106	65-120		30	

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0206 - SW5030B

Matrix Spike Dup (BZL0206-MSD1)	Source: 16L0076-01			Prepared & Analyzed: 12/06/2016						
Bromochloromethane	52.1	5	ug/L	50.0	BLOD	104	70-125		30	
Bromodichloromethane	52.3	5	ug/L	50.0	BLOD	105	70-130		30	
Bromoform	52.9	5	ug/L	50.0	BLOD	106	55-135		30	
Bromomethane	43.2	5	ug/L	50.0	BLOD	86.3	30-160		30	
Carbon disulfide	37.2	5	ug/L	50.0	BLOD	74.3	45-160		30	
Carbon tetrachloride	50.2	5	ug/L	50.0	BLOD	100	65-135		30	
Chlorobenzene	52.4	5	ug/L	50.0	BLOD	105	75-125		30	
Chloroethane	49.2	5	ug/L	50.0	BLOD	98.4	40-155		30	
Chloroform	43.8	5	ug/L	50.0	BLOD	87.6	70-125		30	
Chloromethane	45.8	5	ug/L	50.0	BLOD	91.6	50-130		30	
cis-1,2-Dichloroethylene	47.2	5	ug/L	50.0	BLOD	94.3	65-125		30	
cis-1,3-Dichloropropene	45.0	5	ug/L	50.0	BLOD	90.1	70-125		30	
Dibromochloromethane	54.6	5	ug/L	50.0	BLOD	109	65-130		30	
Dibromomethane	50.6	5	ug/L	50.0	BLOD	101	75-130		30	
Dichlorodifluoromethane	45.9	5	ug/L	50.0	BLOD	91.7	35-135		30	
Ethylbenzene	54.8	5	ug/L	50.0	BLOD	110	75-125		30	
Hexachlorobutadiene	48.6	5	ug/L	50.0	BLOD	96.8	55-140		30	
Isopropylbenzene	50.7	5	ug/L	50.0	BLOD	101	75-130		30	
m+p-Xylenes	109	5	ug/L	100	BLOD	109	80-125		30	
Methylene chloride	51.1	5	ug/L	50.0	BLOD	101	55-140		30	
Methyl-t-butyl ether (MTBE)	48.6	5	ug/L	50.0	BLOD	97.2	65-125		30	
Naphthalene	54.8	5	ug/L	50.0	BLOD	109	40-125		30	
n-Butylbenzene	50.6	5	ug/L	50.0	BLOD	101	65-140		30	
n-Propylbenzene	52.2	5	ug/L	50.0	BLOD	104	65-135		30	
o-Xylene	52.0	5	ug/L	50.0	BLOD	104	75-125		30	

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0206 - SW5030B

Matrix Spike Dup (BZL0206-MSD1)	Source: 16L0076-01			Prepared & Analyzed: 12/06/2016						
sec-Butylbenzene	50.4	5	ug/L	50.0	BLOD	101	65-130		30	
Styrene	53.9	5	ug/L	50.0	BLOD	108	75-125		30	
tert-Butylbenzene	52.1	5	ug/L	50.0	BLOD	104	65-130		30	
Tetrachloroethylene (PCE)	55.9	5	ug/L	50.0	BLOD	112	65-140		30	
Toluene	50.8	5	ug/L	50.0	BLOD	102	70-125		30	
trans-1,2-Dichloroethylene	46.0	5	ug/L	50.0	BLOD	92.0	65-135		30	
trans-1,3-Dichloropropene	44.4	5	ug/L	50.0	BLOD	88.7	65-125		30	
Trichloroethylene	50.1	5	ug/L	50.0	BLOD	100	75-125		30	
Trichlorofluoromethane	43.9	5	ug/L	50.0	BLOD	87.7	25-185		30	
Vinyl chloride	38.0	5	ug/L	50.0	BLOD	76.0	60-125		30	
<hr/>										
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>4430</i>		<i>ug/kg</i>	<i>5000</i>		<i>88.6</i>	<i>80-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>5130</i>		<i>ug/kg</i>	<i>5000</i>		<i>103</i>	<i>85-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>4460</i>		<i>ug/kg</i>	<i>5000</i>		<i>89.2</i>	<i>80-119</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>4930</i>		<i>ug/kg</i>	<i>5000</i>		<i>98.6</i>	<i>85-115</i>			

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0098 - SW3510C

Blank (BZL0098-BLK1)

Prepared: 12/05/2016 Analyzed: 12/06/2016

1,2,4,5-Tetrachlorobenzene	BLOD	10.0	ug/L
1,2,4-Trichlorobenzene	BLOD	10.0	ug/L
1,2-Dichlorobenzene	BLOD	10.0	ug/L
1,2-Diphenylhydrazine	BLOD	10.0	ug/L
1,3-Dichlorobenzene	BLOD	10.0	ug/L
1,3-Dinitrobenzene	BLOD	2.50	ug/L
1,4-Dichlorobenzene	BLOD	10.0	ug/L
1-Naphthylamine	BLOD	10.0	ug/L
2,3,4,6-Tetrachlorophenol	BLOD	10.0	ug/L
2,4,5-Trichlorophenol	BLOD	10.0	ug/L
2,4,6-Trichlorophenol	BLOD	10.0	ug/L
2,4-Dichlorophenol	BLOD	10.0	ug/L
2,4-Dimethylphenol	BLOD	0.50	ug/L
2,4-Dinitrophenol	BLOD	50.0	ug/L
2,4-Dinitrotoluene	BLOD	10.0	ug/L
2,6-Dichlorophenol	BLOD	10.0	ug/L
2,6-Dinitrotoluene	BLOD	10.0	ug/L
2-Chloronaphthalene	BLOD	10.0	ug/L
2-Chlorophenol	BLOD	10.0	ug/L
2-Methylnaphthalene	BLOD	10.0	ug/L
2-Naphthylamine	BLOD	10.0	ug/L
2-Nitroaniline	BLOD	20.0	ug/L
2-Nitrophenol	BLOD	10.0	ug/L
3,3'-Dichlorobenzidine	BLOD	10.0	ug/L
3-Methylcholanthrene	BLOD	10.0	ug/L

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Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0098 - SW3510C

Blank (BZL0098-BLK1)

Prepared: 12/05/2016 Analyzed: 12/06/2016

3-Nitroaniline	BLOD	20.0	ug/L							
4,6-Dinitro-2-methylphenol	BLOD	50.0	ug/L							
4-Aminobiphenyl	BLOD	10.0	ug/L							
4-Bromophenyl phenyl ether	BLOD	10.0	ug/L							
4-Chloroaniline	BLOD	10.0	ug/L							
4-Chlorophenyl phenyl ether	BLOD	10.0	ug/L							
4-Nitroaniline	BLOD	20.0	ug/L							
4-Nitrophenol	BLOD	50.0	ug/L							
7,12-Dimethylbenz (a) anthracene	BLOD	10.0	ug/L							
Acenaphthene	BLOD	10.0	ug/L							
Acenaphthylene	BLOD	10.0	ug/L							
Acetophenone	BLOD	20.0	ug/L							
Aniline	BLOD	50.0	ug/L							
Anthracene	BLOD	10.0	ug/L							
Benzidine	BLOD	50.0	ug/L							
Benzo (a) anthracene	BLOD	0.05	ug/L							
Benzo (a) pyrene	BLOD	10.0	ug/L							
Benzo (b) fluoranthene	BLOD	10.0	ug/L							
Benzo (g,h,i) perylene	BLOD	10.0	ug/L							
Benzo (k) fluoranthene	BLOD	10.0	ug/L							
Benzoic acid	BLOD	50.0	ug/L							
Benzyl alcohol	BLOD	20.0	ug/L							
bis (2-Chloroethoxy) methane	BLOD	10.0	ug/L							
bis (2-Chloroethyl) ether	BLOD	10.0	ug/L							
2,2'-Oxybis (1-chloropropane)	BLOD	10.0	ug/L							

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Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0098 - SW3510C

Blank (BZL0098-BLK1)

Prepared: 12/05/2016 Analyzed: 12/06/2016

bis (2-Ethylhexyl) phthalate	BLOD	10.0	ug/L							
Butyl benzyl phthalate	BLOD	10.0	ug/L							
Chrysene	BLOD	10.0	ug/L							
Dibenz (a,h) anthracene	BLOD	10.0	ug/L							
Dibenz (a,j) acridine	BLOD	10.0	ug/L							
Dibenzofuran	BLOD	5.00	ug/L							
Diethyl phthalate	BLOD	10.0	ug/L							
Dimethyl phthalate	BLOD	10.0	ug/L							
Di-n-butyl phthalate	BLOD	10.0	ug/L							
Di-n-octyl phthalate	BLOD	10.0	ug/L							
Diphenylamine	BLOD	10.0	ug/L							
Ethyl methanesulfonate	BLOD	20.0	ug/L							
Fluoranthene	BLOD	10.0	ug/L							
Fluorene	BLOD	10.0	ug/L							
Hexachlorobenzene	BLOD	1.00	ug/L							
Hexachlorobutadiene	BLOD	10.0	ug/L							
Hexachlorocyclopentadiene	BLOD	10.0	ug/L							
Hexachloroethane	BLOD	10.0	ug/L							
Indeno (1,2,3-cd) pyrene	BLOD	10.0	ug/L							
Isophorone	BLOD	10.0	ug/L							
m+p-Cresols	BLOD	10.0	ug/L							
Methyl methanesulfonate	BLOD	10.0	ug/L							
Naphthalene	BLOD	5.00	ug/L							
Nitrobenzene	BLOD	10.0	ug/L							
n-Nitrosodimethylamine	BLOD	10.0	ug/L							

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0098 - SW3510C

Blank (BZL0098-BLK1)

Prepared: 12/05/2016 Analyzed: 12/06/2016

n-Nitrosodi-n-butylamine	BLOD	10.0	ug/L							
n-Nitrosodi-n-propylamine	BLOD	10.0	ug/L							
n-Nitrosodiphenylamine	BLOD	10.0	ug/L							
n-Nitrosopiperidine	BLOD	10.0	ug/L							
o+m+p-Cresols	BLOD	10.0	ug/L							
o-Cresol	BLOD	10.0	ug/L							
p-(Dimethylamino) azobenzene	BLOD	2.50	ug/L							
p-Chloro-m-cresol	BLOD	10.0	ug/L							
Pentachloronitrobenzene (quintozene)	BLOD	10.0	ug/L							
Pentachlorophenol	BLOD	20.0	ug/L							
Phenacetin	BLOD	10.0	ug/L							
Phenanthrene	BLOD	10.0	ug/L							
Phenol	BLOD	10.0	ug/L							
Pronamide	BLOD	10.0	ug/L							
Pyrene	BLOD	10.0	ug/L							
Pyridine	BLOD	10.0	ug/L							
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<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	40.8		ug/L	200		20.4	40-125			S
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	20.5		ug/L	100		20.5	23-87			S
<i>Surr: 2-Fluorophenol (Surr)</i>	28.1		ug/L	200		14.1	14-52			
<i>Surr: Nitrobenzene-d5 (Surr)</i>	22.0		ug/L	100		22.0	40-110			S
<i>Surr: Phenol-d5 (Surr)</i>	18.6		ug/L	200		9.29	5-33			
<i>Surr: p-Terphenyl-d14 (Surr)</i>	25.2		ug/L	100		25.2	27-133			S

LCS (BZL0098-BS1)

Prepared: 12/05/2016 Analyzed: 12/06/2016

1,2,4-Trichlorobenzene	31.9	10.0	ug/L	49.7		64.3	21.8-66.7			
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Certificate of Analysis

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0098 - SW3510C

LCS (BZL0098-BS1)

Prepared: 12/05/2016 Analyzed: 12/06/2016

1,4-Dichlorobenzene	31.8	10.0	ug/L	50.0		63.7	20-124			
2,4-Dinitrotoluene	26.6	10.0	ug/L	50.0		53.1	39-139			
2-Chlorophenol	63.6	10.0	ug/L	99.0		64.3	35-105			
4-Nitrophenol	25.0	50.0	ug/L	100		25.0	0-125			
Acenaphthene	31.3	10.0	ug/L	49.8		63.0	45-110			
n-Nitrosodi-n-propylamine	33.5	10.0	ug/L	49.8		67.3	35-130			
p-Chloro-m-cresol	61.4	10.0	ug/L	100		61.4	45-110			
Pentachlorophenol	74.7	20.0	ug/L	99.0		75.5	40-115			
Phenol	27.1	10.0	ug/L	100		27.1	0-115			
Pyrene	36.6	10.0	ug/L	50.0		73.2	50-130			
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	76.4		ug/L	200		38.2	40-125			S
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	35.4		ug/L	100		35.4	23-87			
<i>Surr: 2-Fluorophenol (Surr)</i>	48.4		ug/L	200		24.2	14-52			
<i>Surr: Nitrobenzene-d5 (Surr)</i>	35.6		ug/L	100		35.6	40-110			S
<i>Surr: Phenol-d5 (Surr)</i>	29.3		ug/L	200		14.7	5-33			
<i>Surr: p-Terphenyl-d14 (Surr)</i>	32.6		ug/L	100		32.6	27-133			

LCS (BZL0098-BS2)

Prepared: 12/05/2016 Analyzed: 12/06/2016

1,2,4-Trichlorobenzene	61.6	10.0	ug/L	100		61.6	21.8-66.7			
1,4-Dichlorobenzene	62.0	10.0	ug/L	100		62.0	20-124			
2,4-Dinitrotoluene	70.0	10.0	ug/L	100		70.0	39-139			
2-Chlorophenol	65.0	10.0	ug/L	100		65.0	35-105			
4-Nitrophenol	29.2	50.0	ug/L	100		29.2	0-125			
Acenaphthene	72.7	10.0	ug/L	100		72.7	45-110			
n-Nitrosodi-n-propylamine	67.4	10.0	ug/L	100		67.4	35-130			

Certificate of Analysis

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZL0098 - SW3510C										
LCS (BZL0098-BS2)										
				Prepared: 12/05/2016 Analyzed: 12/06/2016						
p-Chloro-m-cresol	67.4	10.0	ug/L	100		67.4	45-110			
Pentachlorophenol	80.4	20.0	ug/L	100		80.4	40-115			
Phenol	28.2	10.0	ug/L	101		28.0	0-115			
Pyrene	93.1	10.0	ug/L	100		93.1	50-130			
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	82.8		ug/L	200		41.4	40-125			
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	37.2		ug/L	100		37.2	23-87			
<i>Surr: 2-Fluorophenol (Surr)</i>	49.9		ug/L	200		24.9	14-52			
<i>Surr: Nitrobenzene-d5 (Surr)</i>	37.2		ug/L	100		37.2	40-110			S
<i>Surr: Phenol-d5 (Surr)</i>	30.3		ug/L	200		15.1	5-33			
<i>Surr: p-Terphenyl-d14 (Surr)</i>	40.3		ug/L	100		40.3	27-133			
Matrix Spike (BZL0098-MS1)										
		Source: 16L0022-01			Prepared: 12/05/2016 Analyzed: 12/07/2016					
1,2,4-Trichlorobenzene	27.6	10.1	ug/L	50.2	BLOD	55.1	44-142			
1,4-Dichlorobenzene	26.2	10.1	ug/L	50.5	BLOD	51.9	20-124			
2,4-Dinitrotoluene	25.2	10.1	ug/L	50.5	BLOD	49.8	39-139			
2-Chlorophenol	51.6	10.1	ug/L	100	BLOD	51.6	35-105			
4-Nitrophenol	25.9	50.5	ug/L	101	BLOD	25.6	0-125			
Acenaphthene	28.3	10.1	ug/L	50.3	BLOD	56.2	4-98			
n-Nitrosodi-n-propylamine	31.6	10.1	ug/L	50.3	BLOD	62.7	35-130			
p-Chloro-m-cresol	57.5	10.1	ug/L	101	BLOD	56.9	45-110			
Pentachlorophenol	82.1	20.2	ug/L	100	BLOD	82.1	40-115			
Phenol	21.9	10.1	ug/L	101	BLOD	21.7	0-115			
Pyrene	41.6	10.1	ug/L	50.5	BLOD	82.3	50-130			
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	71.5		ug/L	202		35.4	40-125			S
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	31.2		ug/L	101		30.9	23-87			

Certificate of Analysis

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0098 - SW3510C

Matrix Spike (BZL0098-MS1)	Source: 16L0022-01		Prepared: 12/05/2016 Analyzed: 12/07/2016							
<i>Surr: 2-Fluorophenol (Surr)</i>	37.0		ug/L	202		18.3	14-52			
<i>Surr: Nitrobenzene-d5 (Surr)</i>	30.6		ug/L	101		30.3	40-110			S
<i>Surr: Phenol-d5 (Surr)</i>	23.2		ug/L	202		11.5	5-33			
<i>Surr: p-Terphenyl-d14 (Surr)</i>	36.1		ug/L	101		35.8	27-133			

Matrix Spike Dup (BZL0098-MSD1)	Source: 16L0022-01		Prepared: 12/05/2016 Analyzed: 12/07/2016							
1,2,4-Trichlorobenzene	21.2	10.2	ug/L	50.7	BLOD	41.9	44-142	26.2	20	M, P
1,4-Dichlorobenzene	20.7	10.2	ug/L	51.0	BLOD	40.5	20-124	23.7	20	P
2,4-Dinitrotoluene	18.7	10.2	ug/L	51.0	BLOD	36.6	39-139	29.7	20	M, P
2-Chlorophenol	42.5	10.2	ug/L	101	BLOD	42.0	35-105	19.4	20	
4-Nitrophenol	23.3	51.0	ug/L	102	BLOD	22.8	0-125	10.6	20	
Acenaphthene	21.3	10.2	ug/L	50.8	BLOD	41.9	4-98	28.1	20	P
n-Nitrosodi-n-propylamine	22.2	10.2	ug/L	50.8	BLOD	43.6	35-130	34.9	20	P
p-Chloro-m-cresol	41.8	10.2	ug/L	102	BLOD	41.0	45-110	31.6	20	M, P
Pentachlorophenol	60.8	20.4	ug/L	101	BLOD	60.2	40-115	29.8	20	P
Phenol	17.6	10.2	ug/L	102	BLOD	17.3	0-115	21.6	20	P
Pyrene	36.9	10.2	ug/L	51.0	BLOD	72.4	50-130	11.8	20	
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	51.5		ug/L	204		25.2	40-125			S
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	23.9		ug/L	102		23.4	23-87			
<i>Surr: 2-Fluorophenol (Surr)</i>	30.5		ug/L	204		14.9	14-52			
<i>Surr: Nitrobenzene-d5 (Surr)</i>	24.2		ug/L	102		23.7	40-110			S
<i>Surr: Phenol-d5 (Surr)</i>	18.9		ug/L	204		9.25	5-33			
<i>Surr: p-Terphenyl-d14 (Surr)</i>	41.5		ug/L	102		40.7	27-133			

Batch BZL0162 - SW3550C

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0162 - SW3550C

Blank (BZL0162-BLK1)

Prepared: 12/06/2016 Analyzed: 12/07/2016

1,2,4,5-Tetrachlorobenzene	BLOD	83.3	ug/kg
1,2,4-Trichlorobenzene	BLOD	83.3	ug/kg
1,2-Dichlorobenzene	BLOD	83.3	ug/kg
1,2-Diphenylhydrazine	BLOD	83.3	ug/kg
1,3-Dichlorobenzene	BLOD	83.3	ug/kg
1,4-Dichlorobenzene	BLOD	83.3	ug/kg
1-Chloronaphthalene	BLOD	83.3	ug/kg
1-Naphthylamine	BLOD	83.3	ug/kg
2,3,4,6-Tetrachlorophenol	BLOD	83.3	ug/kg
2,4,5-Trichlorophenol	BLOD	83.3	ug/kg
2,4,6-Trichlorophenol	BLOD	83.3	ug/kg
2,4-Dichlorophenol	BLOD	83.3	ug/kg
2,4-Dimethylphenol	BLOD	83.3	ug/kg
2,4-Dinitrophenol	BLOD	83.3	ug/kg
2,4-Dinitrotoluene	BLOD	83.3	ug/kg
2,6-Dichlorophenol	BLOD	83.3	ug/kg
2,6-Dinitrotoluene	BLOD	83.3	ug/kg
2-Chloronaphthalene	BLOD	83.3	ug/kg
2-Chlorophenol	BLOD	83.3	ug/kg
2-Methylnaphthalene	BLOD	83.3	ug/kg
2-Naphthylamine	BLOD	83.3	ug/kg
2-Nitroaniline	BLOD	83.3	ug/kg
2-Nitrophenol	BLOD	83.3	ug/kg
3,3'-Dichlorobenzidine	BLOD	83.3	ug/kg
3-Methylcholanthrene	BLOD	83.3	ug/kg

Certificate of Analysis

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Date Issued: 11/22/2017 11:35:12AM

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0162 - SW3550C

Blank (BZL0162-BLK1)

Prepared: 12/06/2016 Analyzed: 12/07/2016

3-Nitroaniline	BLOD	83.3	ug/kg
4,6-Dinitro-2-methylphenol	BLOD	83.3	ug/kg
4-Aminobiphenyl	BLOD	83.3	ug/kg
4-Bromophenyl phenyl ether	BLOD	83.3	ug/kg
4-Chloroaniline	BLOD	83.3	ug/kg
4-Chlorophenyl phenyl ether	BLOD	83.3	ug/kg
4-Nitroaniline	BLOD	83.3	ug/kg
4-Nitrophenol	BLOD	83.3	ug/kg
7,12-Dimethylbenz (a) anthracene	BLOD	83.3	ug/kg
Acenaphthene	BLOD	83.3	ug/kg
Acenaphthylene	BLOD	83.3	ug/kg
Acetophenone	BLOD	83.3	ug/kg
Aniline	BLOD	83.3	ug/kg
Anthracene	BLOD	83.3	ug/kg
Benzidine	BLOD	83.3	ug/kg
Benzo (a) anthracene	BLOD	83.3	ug/kg
Benzo (a) pyrene	BLOD	83.3	ug/kg
Benzo (b) fluoranthene	BLOD	83.3	ug/kg
Benzo (g,h,i) perylene	BLOD	83.3	ug/kg
Benzo (k) fluoranthene	BLOD	83.3	ug/kg
Benzoic acid	BLOD	83.3	ug/kg
Benzyl alcohol	BLOD	83.3	ug/kg
bis (2-Chloroethoxy) methane	BLOD	83.3	ug/kg
bis (2-Chloroethyl) ether	BLOD	83.3	ug/kg
2,2'-Oxybis (1-chloropropane)	BLOD	83.3	ug/kg

Certificate of Analysis

Client Name: Timmons Group
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Date Issued: 11/22/2017 11:35:12AM

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0162 - SW3550C

Blank (BZL0162-BLK1)

Prepared: 12/06/2016 Analyzed: 12/07/2016

bis (2-Ethylhexyl) phthalate	BLOD	83.3	ug/kg
Butyl benzyl phthalate	BLOD	83.3	ug/kg
Chrysene	BLOD	83.3	ug/kg
Dibenz (a,h) anthracene	BLOD	83.3	ug/kg
Dibenz (a,j) acridine	BLOD	83.3	ug/kg
Dibenzofuran	BLOD	83.3	ug/kg
Diethyl phthalate	BLOD	83.3	ug/kg
Dimethyl phthalate	BLOD	83.3	ug/kg
Di-n-butyl phthalate	BLOD	83.3	ug/kg
Di-n-octyl phthalate	BLOD	83.3	ug/kg
Diphenylamine	BLOD	83.3	ug/kg
Ethyl methanesulfonate	BLOD	83.3	ug/kg
Fluoranthene	BLOD	83.3	ug/kg
Fluorene	BLOD	83.3	ug/kg
Hexachlorobenzene	BLOD	83.3	ug/kg
Hexachlorobutadiene	BLOD	83.3	ug/kg
Hexachlorocyclopentadiene	BLOD	83.3	ug/kg
Hexachloroethane	BLOD	83.3	ug/kg
Indeno (1,2,3-cd) pyrene	BLOD	83.3	ug/kg
Isophorone	BLOD	83.3	ug/kg
m+p-Cresols	BLOD	83.3	ug/kg
Methyl methanesulfonate	BLOD	83.3	ug/kg
Naphthalene	BLOD	83.3	ug/kg
Nitrobenzene	BLOD	83.3	ug/kg
n-Nitrosodimethylamine	BLOD	83.3	ug/kg

Certificate of Analysis

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Date Issued: 11/22/2017 11:35:12AM

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0162 - SW3550C

Blank (BZL0162-BLK1)

Prepared: 12/06/2016 Analyzed: 12/07/2016

n-Nitrosodi-n-butylamine	BLOD	83.3	ug/kg							
n-Nitrosodi-n-propylamine	BLOD	83.3	ug/kg							
n-Nitrosodiphenylamine	BLOD	83.3	ug/kg							
n-Nitrosopiperidine	BLOD	83.3	ug/kg							
o+m+p-Cresols	BLOD	83.3	ug/kg							
o-Cresol	BLOD	83.3	ug/kg							
p-(Dimethylamino) azobenzene	BLOD	83.3	ug/kg							
p-Chloro-m-cresol	BLOD	83.3	ug/kg							
Pentachloronitrobenzene (quintozene)	BLOD	83.3	ug/kg							
Pentachlorophenol	BLOD	83.3	ug/kg							
Phenacetin	BLOD	83.3	ug/kg							
Phenanthrene	BLOD	83.3	ug/kg							
Phenol	BLOD	83.3	ug/kg							
Pronamide	BLOD	83.3	ug/kg							
Pyrene	BLOD	83.3	ug/kg							
Pyridine	BLOD	83.3	ug/kg							
<hr/>										
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	<i>2510</i>		ug/kg	<i>3250</i>		<i>77.2</i>	<i>35-125</i>			
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	<i>1300</i>		ug/kg	<i>1620</i>		<i>80.4</i>	<i>45-105</i>			
<i>Surr: 2-Fluorophenol (Surr)</i>	<i>2700</i>		ug/kg	<i>3250</i>		<i>83.2</i>	<i>35-105</i>			
<i>Surr: Nitrobenzene-d5 (Surr)</i>	<i>1350</i>		ug/kg	<i>1620</i>		<i>83.2</i>	<i>35-100</i>			
<i>Surr: Phenol-d5 (Surr)</i>	<i>2540</i>		ug/kg	<i>3250</i>		<i>78.1</i>	<i>40-100</i>			
<i>Surr: p-Terphenyl-d14 (Surr)</i>	<i>1210</i>		ug/kg	<i>1620</i>		<i>74.7</i>	<i>30-125</i>			

LCS (BZL0162-BS1)

Prepared: 12/06/2016 Analyzed: 12/07/2016

1,2,4-Trichlorobenzene	810	83.3	ug/kg	1580		51.3	44-142			
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Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0162 - SW3550C

LCS (BZL0162-BS1)

Prepared: 12/06/2016 Analyzed: 12/07/2016

1,4-Dichlorobenzene	834	83.3	ug/kg	1590		52.6	20-124			
4-Nitrophenol	1310	83.3	ug/kg	3170		41.3	15-140			
Acenaphthene	746	83.3	ug/kg	1580		47.2	45-110			
n-Nitrosodi-n-propylamine	842	83.3	ug/kg	1580		53.3	40-115			
Pentachlorophenol	1590	83.3	ug/kg	3140		50.6	25-120			
Phenol	1460	83.3	ug/kg	3170		45.9	40-100			
Pyrene	845	83.3	ug/kg	1590		53.2	45-125			
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	1830		ug/kg	3170		57.7	35-125			
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	880		ug/kg	1590		55.4	45-105			
<i>Surr: 2-Fluorophenol (Surr)</i>	1730		ug/kg	3170		54.4	35-105			
<i>Surr: Nitrobenzene-d5 (Surr)</i>	913		ug/kg	1590		57.5	35-100			
<i>Surr: Phenol-d5 (Surr)</i>	1710		ug/kg	3170		53.7	40-100			
<i>Surr: p-Terphenyl-d14 (Surr)</i>	764		ug/kg	1590		48.1	30-125			

Matrix Spike (BZL0162-MS1)

Source: 16L0076-01

Prepared: 12/06/2016 Analyzed: 12/07/2016

1,2,4-Trichlorobenzene	BLOD	83.3	ug/kg	1610	BLOD		44-142			M2
1,4-Dichlorobenzene	84.8	83.3	ug/kg	1620	BLOD	5.24	20-124			M2
4-Nitrophenol	515	83.3	ug/kg	3240	BLOD	15.9	15-140			
Acenaphthene	135	83.3	ug/kg	1610	BLOD	8.37	45-110			M2
n-Nitrosodi-n-propylamine	116	83.3	ug/kg	1610	BLOD	7.21	40-115			M2
Pentachlorophenol	475	83.3	ug/kg	3200	BLOD	14.8	25-120			M2
Phenol	242	83.3	ug/kg	3240	BLOD	7.49	40-100			M2
Pyrene	207	83.3	ug/kg	1620	BLOD	12.8	45-125			M2
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	491		ug/kg	3240		15.2	35-125			DS
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	114		ug/kg	1620		7.06	45-105			DS

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZL0162 - SW3550C										
Matrix Spike (BZL0162-MS1)		Source: 16L0076-01			Prepared: 12/06/2016 Analyzed: 12/07/2016					
<i>Surr: 2-Fluorophenol (Surr)</i>	277		ug/kg	3240		8.57	35-105			DS
<i>Surr: Nitrobenzene-d5 (Surr)</i>	137		ug/kg	1620		8.45	35-100			DS
<i>Surr: Phenol-d5 (Surr)</i>	275		ug/kg	3240		8.49	40-100			DS
<i>Surr: p-Terphenyl-d14 (Surr)</i>	184		ug/kg	1620		11.4	30-125			DS
Matrix Spike Dup (BZL0162-MSD1)		Source: 16L0076-01			Prepared: 12/06/2016 Analyzed: 12/07/2016					
1,2,4-Trichlorobenzene	BLOD	83.3	ug/kg	1530	BLOD		44-142		20	M2
1,4-Dichlorobenzene	BLOD	83.3	ug/kg	1540	BLOD		20-124		20	M2
4-Nitrophenol	392	83.3	ug/kg	3080	BLOD	12.7	15-140	27.0	20	M2, P
Acenaphthene	101	83.3	ug/kg	1530	BLOD	6.61	45-110		20	M2
n-Nitrosodi-n-propylamine	BLOD	83.3	ug/kg	1530	BLOD		40-115		20	M2
Pentachlorophenol	380	83.3	ug/kg	3050	BLOD	12.5	25-120	22.3	20	M2, P
Phenol	161	83.3	ug/kg	3080	BLOD	5.24	40-100		20	M2
Pyrene	168	83.3	ug/kg	1540	BLOD	10.9	45-125		20	M2
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	439		ug/kg	3080		14.3	35-125			DS
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	94.4		ug/kg	1540		6.13	45-105			DS
<i>Surr: 2-Fluorophenol (Surr)</i>	203		ug/kg	3080		6.58	35-105			DS
<i>Surr: Nitrobenzene-d5 (Surr)</i>	109		ug/kg	1540		7.10	35-100			DS
<i>Surr: Phenol-d5 (Surr)</i>	207		ug/kg	3080		6.72	40-100			DS
<i>Surr: p-Terphenyl-d14 (Surr)</i>	161		ug/kg	1540		10.4	30-125			DS

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Semivolatile Hydrocarbons by GC - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZL0161 - SW3510C										
Blank (BZL0161-BLK1) Prepared: 12/06/2016 Analyzed: 12/08/2016										
TPH-Semi-Volatiles (DRO)	BLOD	0.500	mg/L							
<i>Surr: Pentacosane (Surr)</i>	0.301		mg/L	0.250		120	40-160			
LCS (BZL0161-BS1) Prepared: 12/06/2016 Analyzed: 12/08/2016										
TPH-Semi-Volatiles (DRO)	3.9	0.500	mg/L	5.00		78.1	40-160			
<i>Surr: Pentacosane (Surr)</i>	0.218		mg/L	0.250		87.4	40-160			
Matrix Spike (BZL0161-MS1) Source: 16L0103-01 Prepared: 12/06/2016 Analyzed: 12/08/2016										
TPH-Semi-Volatiles (DRO)	3.6	0.500	mg/L	5.26	0.49	58.3	40-160			
<i>Surr: Pentacosane (Surr)</i>	0.237		mg/L	0.263		90.2	40-160			
Matrix Spike Dup (BZL0161-MSD1) Source: 16L0103-01 Prepared: 12/06/2016 Analyzed: 12/08/2016										
TPH-Semi-Volatiles (DRO)	3.8	0.500	mg/L	5.26	0.49	62.6	40-160	6.21	20	
<i>Surr: Pentacosane (Surr)</i>	0.248		mg/L	0.263		94.1	40-160			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0126 - SW3550B

Blank (BZL0126-BLK1)

Prepared: 12/05/2016 Analyzed: 12/07/2016

PCB as Aroclor 1016	BLOD	0.100	mg/kg wet							
4,4'-DDD	BLOD	6.00	ug/kg							
PCB as Aroclor 1221	BLOD	0.100	mg/kg wet							
4,4'-DDE	BLOD	4.00	ug/kg							
PCB as Aroclor 1232	BLOD	0.100	mg/kg wet							
PCB as Aroclor 1242	BLOD	0.100	mg/kg wet							
PCB as Aroclor 1248	BLOD	0.100	mg/kg wet							
4,4'-DDT	BLOD	4.00	ug/kg							
PCB as Aroclor 1254	BLOD	0.100	mg/kg wet							
PCB as Aroclor 1260	BLOD	0.100	mg/kg wet							
Aldrin	BLOD	2.00	ug/kg							
alpha-BHC	BLOD	2.00	ug/kg							
beta-BHC	BLOD	2.00	ug/kg							
Chlordane	BLOD	42.0	ug/kg							
delta-BHC	BLOD	4.00	ug/kg							
Dieldrin	BLOD	4.00	ug/kg							
Endosulfan I	BLOD	4.00	ug/kg							
Endosulfan II	BLOD	6.00	ug/kg							
Endosulfan sulfate	BLOD	2.00	ug/kg							
Endrin	BLOD	4.00	ug/kg							
Endrin aldehyde	BLOD	8.00	ug/kg							
Endrin ketone	BLOD	2.00	ug/kg							
gamma-BHC (Lindane)	BLOD	2.00	ug/kg							
Heptachlor	BLOD	2.00	ug/kg							
Heptachlor epoxide	BLOD	40.0	ug/kg							

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0126 - SW3550B

Blank (BZL0126-BLK1)

Prepared: 12/05/2016 Analyzed: 12/07/2016

Methoxychlor	BLOD	40.0	ug/kg							
Mirex	BLOD	6.00	ug/kg							
Toxaphene	BLOD	42.0	ug/kg							
<i>Surr: DCB</i>	<i>0.0513</i>		mg/kg wet	<i>0.0331</i>		<i>155</i>	<i>30-105</i>			S
<i>Surr: TCMX</i>	<i>0.0298</i>		mg/kg wet	<i>0.0331</i>		<i>90.0</i>	<i>30-105</i>			
<i>Surr: TCMX</i>	<i>29.8</i>		ug/kg	<i>33.1</i>		<i>90.0</i>	<i>30-105</i>			
<i>Surr: DCB</i>	<i>51.3</i>		ug/kg	<i>33.1</i>		<i>155</i>	<i>30-105</i>			S

LCS (BZL0126-BS1)

Prepared: 12/05/2016 Analyzed: 12/07/2016

4,4'-DDD	12.0	6.00	ug/kg	15.0		80.0	23-134			
4,4'-DDE	12.0	4.00	ug/kg	15.0		80.0	23-134			
4,4'-DDT	10.5	4.00	ug/kg	15.0		70.0	23-134			
Aldrin	9.01	2.00	ug/kg	15.0		60.0	23-134			
alpha-BHC	9.01	2.00	ug/kg	15.0		60.0	23-134			
beta-BHC	10.5	2.00	ug/kg	15.0		70.0	23-134			
delta-BHC	9.01	4.00	ug/kg	15.0		60.0	23-134			
Dieldrin	12.0	4.00	ug/kg	15.0		80.0	23-134			
Endosulfan I	12.0	4.00	ug/kg	15.0		80.0	23-134			
Endosulfan II	10.5	6.00	ug/kg	15.0		70.0	23-134			
Endosulfan sulfate	10.5	2.00	ug/kg	15.0		70.0	23-134			
Endrin	12.0	4.00	ug/kg	15.0		80.0	23-134			
Endrin aldehyde	9.01	8.00	ug/kg	15.0		60.0	23-134			
Endrin ketone	12.0	2.00	ug/kg				23-134			
gamma-BHC (Lindane)	9.01	2.00	ug/kg	15.0		60.0	23-134			
Heptachlor	9.01	2.00	ug/kg	15.0		60.0	23-134			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZL0126 - SW3550B										
LCS (BZL0126-BS1) Prepared: 12/05/2016 Analyzed: 12/07/2016										
Heptachlor epoxide	10.5	40.0	ug/kg	15.0		70.0	23-134			
Methoxychlor	10.5	40.0	ug/kg	15.0		70.0	23-134			
Mirex	12.0	6.00	ug/kg	15.0		80.0	23-134			
<i>Surr: TCMX</i>	19.5		ug/kg	30.0		65.0	30-105			
<i>Surr: DCB</i>	24.0		ug/kg	30.0		80.0	30-105			
LCS (BZL0126-BS2) Prepared: 12/05/2016 Analyzed: 12/07/2016										
PCB as Aroclor 1016	0.172	0.100	mg/kg wet	0.155		111	60-140			
PCB as Aroclor 1260	0.154	0.100	mg/kg wet	0.155		99.0	60-140			
<i>Surr: DCB</i>	0.0404		mg/kg wet	0.0311		130	30-105			S
<i>Surr: TCMX</i>	0.0311		mg/kg wet	0.0311		100	30-105			
LCS (BZL0126-BS3) Prepared: 12/05/2016 Analyzed: 12/08/2016										
Toxaphene	309	42.0	ug/kg	415		74.4	23-134			
LCS (BZL0126-BS4) Prepared: 12/05/2016 Analyzed: 12/08/2016										
Chlordane	251	42.0	ug/kg	374		67.2	23-134			
Matrix Spike (BZL0126-MS1) Source: 16L0076-01 Prepared: 12/05/2016 Analyzed: 12/08/2016										
PCB as Aroclor 1016	1.31	0.107	mg/kg dry	0.178	BLOD	733	60-140			M
PCB as Aroclor 1260	0.235	0.107	mg/kg dry	0.178	BLOD	132	60-140			
<i>Surr: DCB</i>	0.0659		mg/kg dry	0.0356		185	30-105			S
<i>Surr: TCMX</i>	0.0338		mg/kg dry	0.0356		95.0	30-105			
Matrix Spike (BZL0126-MS2) Source: 16L0048-15 Prepared: 12/05/2016 Analyzed: 12/07/2016										
4,4'-DDD	16.6	11.9	ug/kg	33.1	BLOD	50.0	23-134			
4,4'-DDE	13.2	7.95	ug/kg	33.1	BLOD	40.0	23-134			

Certificate of Analysis

Client Name: Timmons Group
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Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0126 - SW3550B

Matrix Spike (BZL0126-MS2)	Source: 16L0048-15		Prepared: 12/05/2016 Analyzed: 12/07/2016							
4,4'-DDT	16.6	7.95	ug/kg	33.1	BLOD	50.0	23-134			
Aldrin	16.6	3.97	ug/kg	33.1	BLOD	50.0	23-134			
alpha-BHC	16.6	3.97	ug/kg	33.1	BLOD	50.0	23-134			
beta-BHC	13.2	3.97	ug/kg	33.1	BLOD	40.0	23-134			
delta-BHC	26.5	7.95	ug/kg	33.1	BLOD	80.0	23-134			
Dieldrin	16.6	7.95	ug/kg	33.1	BLOD	50.0	23-134			
Endosulfan I	16.6	7.95	ug/kg	33.1	BLOD	50.0	23-134			
Endosulfan II	19.9	11.9	ug/kg	33.1	BLOD	60.0	23-134			
Endosulfan sulfate	23.2	3.97	ug/kg	33.1	BLOD	70.0	23-134			
Endrin	19.9	7.95	ug/kg	33.1	BLOD	60.0	23-134			
Endrin aldehyde	BLOD	15.9	ug/kg	33.1	BLOD		23-134			M
Endrin ketone	26.5	3.97	ug/kg		BLOD		23-134			
gamma-BHC (Lindane)	16.6	3.97	ug/kg	33.1	BLOD	50.0	23-134			
Heptachlor	16.6	3.97	ug/kg	33.1	BLOD	50.0	23-134			
Heptachlor epoxide	16.6	79.5	ug/kg	33.1	BLOD	50.0	23-134			
Methoxychlor	23.2	79.5	ug/kg	33.1	BLOD	70.0	23-134			
Mirex	16.6	11.9	ug/kg	33.1	BLOD	50.0	23-134			

Surr: TCMX	26.5		ug/kg	66.2		40.0	30-105			
Surr: DCB	36.4		ug/kg	66.2		55.0	30-105			

Matrix Spike Dup (BZL0126-MSD1)	Source: 16L0076-01		Prepared: 12/05/2016 Analyzed: 12/08/2016							
PCB as Aroclor 1016	1.84	0.107	mg/kg dry	0.179	BLOD	1030	60-140	34.2	20	M, P
PCB as Aroclor 1260	0.184	0.107	mg/kg dry	0.179	BLOD	103	60-140	24.4	20	P
Surr: DCB	0.0554		mg/kg dry	0.0357		155	30-105			S
Surr: TCMX	0.0322		mg/kg dry	0.0357		90.0	30-105			

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Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0129 - SW3510C

Blank (BZL0129-BLK1)

Prepared: 12/05/2016 Analyzed: 12/07/2016

PCB as Aroclor 1016	BLOD	0.200	ug/L							
4,4'-DDD	BLOD	0.050	ug/L							
PCB as Aroclor 1221	BLOD	0.200	ug/L							
PCB as Aroclor 1232	BLOD	0.200	ug/L							
4,4'-DDE	BLOD	0.050	ug/L							
PCB as Aroclor 1242	BLOD	0.200	ug/L							
PCB as Aroclor 1248	BLOD	0.200	ug/L							
4,4'-DDT	BLOD	0.050	ug/L							
PCB as Aroclor 1254	BLOD	0.200	ug/L							
PCB as Aroclor 1260	BLOD	0.200	ug/L							
Aldrin	BLOD	0.050	ug/L							
alpha-BHC	BLOD	0.050	ug/L							
beta-BHC	BLOD	0.050	ug/L							
Chlordane	BLOD	0.200	ug/L							
delta-BHC	BLOD	0.050	ug/L							
Dieldrin	BLOD	0.050	ug/L							
Endosulfan I	BLOD	0.050	ug/L							
Endosulfan II	BLOD	0.050	ug/L							
Endosulfan sulfate	BLOD	0.050	ug/L							
Endrin	BLOD	0.050	ug/L							
Endrin aldehyde	BLOD	0.050	ug/L							
gamma-BHC (Lindane)	BLOD	0.050	ug/L							
Heptachlor	BLOD	0.050	ug/L							
Heptachlor epoxide	BLOD	0.050	ug/L							
Methoxychlor	BLOD	0.050	ug/L							

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Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0129 - SW3510C

Blank (BZL0129-BLK1)

Prepared: 12/05/2016 Analyzed: 12/07/2016

Toxaphene	BLOD	1.00	ug/L							
<i>Surr: DCB</i>	<i>0.210</i>		ug/L	<i>0.200</i>		<i>105</i>	<i>30-105</i>			
<i>Surr: TCMX</i>	<i>0.130</i>		ug/L	<i>0.200</i>		<i>65.0</i>	<i>30-105</i>			
<i>Surr: TCMX</i>	<i>0.130</i>		ug/L	<i>0.200</i>		<i>65.0</i>	<i>18-112</i>			
<i>Surr: DCB</i>	<i>0.200</i>		ug/L	<i>0.200</i>		<i>100</i>	<i>27-131</i>			

LCS (BZL0129-BS1)

Prepared: 12/05/2016 Analyzed: 12/07/2016

4,4'-DDD	0.100	0.050	ug/L	0.100		100	23-134			
4,4'-DDE	0.090	0.050	ug/L	0.100		90.0	23-134			
4,4'-DDT	0.100	0.050	ug/L	0.100		100	23-134			
Aldrin	0.080	0.050	ug/L	0.100		80.0	23-134			
alpha-BHC	0.080	0.050	ug/L	0.100		80.0	23-134			
beta-BHC	0.090	0.050	ug/L	0.100		90.0	23-134			
Chlordane	BLOD	0.200	ug/L				23-134			
delta-BHC	0.100	0.050	ug/L	0.100		100	23-134			
Dieldrin	0.090	0.050	ug/L	0.100		90.0	23-134			
Endosulfan I	0.090	0.050	ug/L	0.100		90.0	23-134			
Endosulfan II	0.100	0.050	ug/L	0.100		100	23-134			
Endosulfan sulfate	0.100	0.050	ug/L	0.100		100	23-134			
Endrin	0.100	0.050	ug/L	0.100		100	23-134			
Endrin aldehyde	0.090	0.050	ug/L	0.100		90.0	23-134			
gamma-BHC (Lindane)	0.080	0.050	ug/L	0.100		80.0	23-134			
Heptachlor	0.080	0.050	ug/L	0.100		80.0	23-134			
Heptachlor epoxide	0.090	0.050	ug/L	0.100		90.0	23-134			
Methoxychlor	0.110	0.050	ug/L	0.100		110	23-134			

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Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZL0129 - SW3510C										
LCS (BZL0129-BS1)				Prepared: 12/05/2016 Analyzed: 12/07/2016						
Mirex	0.090	0.050	ug/L	0.100		90.0	23-134			
Toxaphene	BLOD	1.00	ug/L				23-134			
<i>Surr: TCMX</i>	<i>0.150</i>		ug/L	<i>0.200</i>		<i>75.0</i>	<i>18-112</i>			
<i>Surr: DCB</i>	<i>0.140</i>		ug/L	<i>0.200</i>		<i>70.0</i>	<i>27-131</i>			
LCS (BZL0129-BS2)				Prepared: 12/05/2016 Analyzed: 12/07/2016						
PCB as Aroclor 1016	0.650	0.200	ug/L	1.00		65.0	40-120			
PCB as Aroclor 1260	0.680	0.200	ug/L	1.00		68.0	40-120			
<i>Surr: DCB</i>	<i>0.140</i>		ug/L	<i>0.200</i>		<i>70.0</i>	<i>30-105</i>			
<i>Surr: TCMX</i>	<i>0.110</i>		ug/L	<i>0.200</i>		<i>55.0</i>	<i>30-105</i>			
LCS (BZL0129-BS3)				Prepared: 12/05/2016 Analyzed: 12/07/2016						
Toxaphene	1.36	1.00	ug/L	2.50		54.4	23-134			
LCS (BZL0129-BS4)				Prepared: 12/05/2016 Analyzed: 12/07/2016						
Chlordane	1.64	0.200	ug/L	2.50		65.6	23-134			
Matrix Spike (BZL0129-MS1)		Source: 16L0048-06			Prepared: 12/05/2016 Analyzed: 12/08/2016					
4,4'-DDD	0.179	0.064	ug/L	0.128	BLOD	140	23-134			M
4,4'-DDE	0.192	0.064	ug/L	0.128	BLOD	150	23-134			M
4,4'-DDT	0.282	0.064	ug/L	0.128	BLOD	220	23-134			M
Aldrin	0.333	0.064	ug/L	0.128	BLOD	260	23-134			M
alpha-BHC	0.385	0.064	ug/L	0.128	BLOD	300	23-134			M
beta-BHC	1.50	0.064	ug/L	0.128	BLOD	1170	23-134			M
delta-BHC	1.12	0.064	ug/L	0.128	BLOD	870	23-134			M
Dieldrin	0.205	0.064	ug/L	0.128	BLOD	160	23-134			M
Endosulfan I	0.179	0.064	ug/L	0.128	BLOD	140	23-134			M

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Client Name: Timmons Group
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Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0129 - SW3510C

Matrix Spike (BZL0129-MS1)		Source: 16L0048-06		Prepared: 12/05/2016 Analyzed: 12/08/2016						
Endosulfan II	0.308	0.064	ug/L	0.128	BLOD	240	23-134			M
Endosulfan sulfate	0.269	0.064	ug/L	0.128	BLOD	210	23-134			M
Endrin	0.167	0.064	ug/L	0.128	BLOD	130	23-134			
Endrin aldehyde	0.487	0.064	ug/L	0.128	BLOD	380	23-134			M
gamma-BHC (Lindane)	1.08	0.064	ug/L	0.128	BLOD	840	23-134			M
Heptachlor	2.22	0.064	ug/L	0.128	BLOD	1730	23-134			M
Heptachlor epoxide	0.269	0.064	ug/L	0.128	BLOD	210	23-134			M
Methoxychlor	0.526	0.064	ug/L	0.128	BLOD	410	23-134			M
Mirex	0.500	0.064	ug/L	0.128	BLOD	390	23-134			M
<i>Surr: TCMX</i>	0.346		ug/L	0.256		135	18-112			S
<i>Surr: DCB</i>	0.346		ug/L	0.256		135	27-131			S

Matrix Spike Dup (BZL0129-MSD1)		Source: 16L0048-06		Prepared: 12/05/2016 Analyzed: 12/08/2016						
4,4'-DDD	0.246	0.088	ug/L	0.175	BLOD	140	23-134	31.1	20	M, P
4,4'-DDE	0.088	0.088	ug/L	0.175	BLOD	50.0	23-134	74.7	20	P
4,4'-DDT	0.140	0.088	ug/L	0.175	BLOD	80.0	23-134	67.1	20	P
Aldrin	5.56	0.088	ug/L	0.175	BLOD	3170	23-134	177	20	M, P
alpha-BHC	0.105	0.088	ug/L	0.175	BLOD	60.0	23-134	114	20	P
beta-BHC	0.228	0.088	ug/L	0.175	BLOD	130	23-134	147	20	P
delta-BHC	0.246	0.088	ug/L	0.175	BLOD	140	23-134	128	20	M, P
Dieldrin	0.070	0.088	ug/L	0.175	BLOD	40.0	23-134	98.0	20	P
Endosulfan I	0.088	0.088	ug/L	0.175	BLOD	50.0	23-134	68.7	20	P
Endosulfan II	0.123	0.088	ug/L	0.175	BLOD	70.0	23-134	85.9	20	P
Endosulfan sulfate	0.158	0.088	ug/L	0.175	BLOD	90.0	23-134	52.1	20	P
Endrin	0.228	0.088	ug/L	0.175	BLOD	130	23-134	31.1	20	P

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Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZL0129 - SW3510C

Matrix Spike Dup (BZL0129-MSD1)	Source: 16L0048-06		Prepared: 12/05/2016 Analyzed: 12/08/2016							
Endrin aldehyde	0.193	0.088	ug/L	0.175	BLOD	110	23-134	86.5	20	P
gamma-BHC (Lindane)	0.105	0.088	ug/L	0.175	BLOD	60.0	23-134	164	20	P
Heptachlor	BLOD	0.088	ug/L	0.175	BLOD		23-134		20	M
Heptachlor epoxide	0.123	0.088	ug/L	0.175	BLOD	70.0	23-134	74.7	20	P
Methoxychlor	0.351	0.088	ug/L	0.175	BLOD	200	23-134	39.9	20	M, P
Mirex	0.263	0.088	ug/L	0.175	BLOD	150	23-134	62.1	20	M, P
<i>Surr: TCMX</i>	<i>0.263</i>		ug/L	<i>0.351</i>		<i>75.0</i>	<i>18-112</i>			
<i>Surr: DCB</i>	<i>0.421</i>		ug/L	<i>0.351</i>		<i>120</i>	<i>27-131</i>			

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Client Name: Timmons Group
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Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZL0096 - No Prep Wet Chem										
LCS (BZL0096-BS1)				Prepared & Analyzed: 12/02/2016						
pH	5.07	0	SU	5.00		101	94-106			
Duplicate (BZL0096-DUP1)				Source: 16L0048-15 Prepared & Analyzed: 12/02/2016						
pH	8.21	0.00	SU		8.09			1.47	20	
Batch BZL0159 - No Prep Wet Chem										
Blank (BZL0159-BLK1)				Prepared & Analyzed: 12/06/2016						
Cyanide	BLOD	0.01	mg/L							
LCS (BZL0159-BS1)				Prepared & Analyzed: 12/06/2016						
Cyanide	0.24	0.01	mg/L	0.250		96.4	80-120			
LCS Dup (BZL0159-BSD1)				Prepared & Analyzed: 12/06/2016						
Cyanide	0.24	0.01	mg/L	0.250		97.6	80-120	1.24	20	
Matrix Spike (BZL0159-MS1)				Source: 16K0773-01 Prepared & Analyzed: 12/06/2016						
Cyanide	0.25	0.01	mg/L	0.250	BLOD	98.3	80-120			CI
Matrix Spike (BZL0159-MS2)				Source: 16K0773-02 Prepared & Analyzed: 12/06/2016						
Cyanide	0.22	0.01	mg/L	0.250	BLOD	89.4	80-120			CI
Matrix Spike Dup (BZL0159-MSD1)				Source: 16K0773-01 Prepared & Analyzed: 12/06/2016						
Cyanide	0.25	0.01	mg/L	0.250	BLOD	101	80-120	2.89	20	CI
Matrix Spike Dup (BZL0159-MSD2)				Source: 16K0773-02 Prepared & Analyzed: 12/06/2016						
Cyanide	0.23	0.01	mg/L	0.250	BLOD	90.8	80-120	1.60	20	CI

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Client Name: Timmons Group
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Wet Chemistry Analysis - Quality Control
Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZL0160 - No Prep Wet Chem										
Blank (BZL0160-BLK1)				Prepared & Analyzed: 12/06/2016						
Cyanide	BLOD	0.01	mg/kg							
LCS (BZL0160-BS1)				Prepared & Analyzed: 12/06/2016						
Cyanide	0.24	0.01	mg/L	0.250		97.2	80-120			
LCS Dup (BZL0160-BSD1)				Prepared & Analyzed: 12/06/2016						
Cyanide	0.26	0.01	mg/L	0.250		102	80-120	5.10	20	
Matrix Spike (BZL0160-MS1)				Source: 16L0048-12		Prepared & Analyzed: 12/06/2016				
Cyanide	41.4	0.99	mg/kg	24.7	15.8	104	75-125			
Matrix Spike Dup (BZL0160-MSD1)				Source: 16L0048-12		Prepared & Analyzed: 12/06/2016				
Cyanide	40.9	0.99	mg/kg	24.7	15.8	102	75-125	1.22	20	
Batch BZL0230 - No Prep Halides										
Blank (BZL0230-BLK1)				Prepared: 12/07/2016 Analyzed: 12/08/2016						
Percent Solids	100	0.10	%							
Duplicate (BZL0230-DUP1)				Source: 16L0027-01		Prepared: 12/07/2016 Analyzed: 12/08/2016				
Percent Solids	84.3	0.10	%		84.5			0.212	20	
Duplicate (BZL0230-DUP2)				Source: 16L0076-01		Prepared: 12/07/2016 Analyzed: 12/08/2016				
Percent Solids	92.0	0.10	%		91.7			0.306	20	

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Date Issued: 11/22/2017 11:35:12AM

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 200 Series Methods			Preparation Method:	EPA200.2/R2.8	
16L0048-02	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZL0135	SZL0132	AL60019
16L0048-02RE1	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZL0135	SZL0139	AL60019
16L0048-05	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZL0135	SZL0132	AL60019
16L0048-05RE1	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZL0135	SZL0139	AL60019
16L0048-06	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZL0135	SZL0132	AL60019
16L0048-06RE1	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZL0135	SZL0139	AL60019
16L0048-08	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZL0135	SZL0132	AL60019
16L0048-08RE1	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZL0135	SZL0139	AL60019
16L0048-09	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZL0135	SZL0132	AL60019
16L0048-09RE1	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZL0135	SZL0139	AL60019

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			Preparation Method:	EPA200.9/R2.2	
16L0048-02	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0161	AL60016
16L0048-02	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0164	AL60027
16L0048-02	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0170	AL60028
16L0048-02	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0181	AL60031
16L0048-05	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0161	AL60016
16L0048-05	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0164	AL60027
16L0048-05	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0170	AL60028
16L0048-05	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0181	AL60031
16L0048-06	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0161	AL60016
16L0048-06	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0164	AL60027
16L0048-06	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0170	AL60028
16L0048-06	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0181	AL60031
16L0048-08	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0161	AL60016

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Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			Preparation Method:	EPA200.9/R2.2	
16L0048-08	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0164	AL60027
16L0048-08	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0175	AL60028
16L0048-08	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0181	AL60031
16L0048-09	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0161	AL60016
16L0048-09	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0164	AL60027
16L0048-09	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0175	AL60028
16L0048-09	50.0 mL / 50.0 mL	SW7010	BZL0149	SZL0181	AL60031

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			Preparation Method:	No Prep Halides	
16L0048-12	1.00 g / 1.00 mL	SM18 2540G	BZL0230	SZL0212	
16L0048-13	1.00 g / 1.00 mL	SM18 2540G	BZL0230	SZL0212	
16L0048-14	1.00 g / 1.00 mL	SM18 2540G	BZL0230	SZL0212	
16L0048-15	1.00 g / 1.00 mL	SM18 2540G	BZL0230	SZL0212	
16L0048-16	1.00 g / 1.00 mL	SM18 2540G	BZL0230	SZL0212	
16L0048-17	1.00 g / 1.00 mL	SM18 2540G	BZL0230	SZL0212	
16L0048-18	1.00 g / 1.00 mL	SM18 2540G	BZL0230	SZL0212	
16L0048-19	1.00 g / 1.00 mL	SM18 2540G	BZL0230	SZL0212	

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			Preparation Method:	No Prep Wet Chem	
16L0048-12	20.1 g / 20.0 mL	SW9045D	BZL0096	SZL0075	
16L0048-13	20.1 g / 20.0 mL	SW9045D	BZL0096	SZL0075	
16L0048-14	20.2 g / 20.0 mL	SW9045D	BZL0096	SZL0075	
16L0048-15	20.7 g / 20.0 mL	SW9045D	BZL0096	SZL0075	
16L0048-16	20.1 g / 20.0 mL	SW9045D	BZL0096	SZL0075	
16L0048-17	20.1 g / 20.0 mL	SW9045D	BZL0096	SZL0075	
16L0048-18	20.4 g / 20.0 mL	SW9045D	BZL0096	SZL0075	

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Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			Preparation Method:	No Prep Wet Chem	
16L0048-19	20.2 g / 20.0 mL	SW9045D	BZL0096	SZL0075	
16L0048-03	6.00 mL / 6.00 mL	SW9012B	BZL0159	SZL0126	AL60024
16L0048-05	6.00 mL / 6.00 mL	SW9012B	BZL0159	SZL0126	AL60024
16L0048-06	6.00 mL / 6.00 mL	SW9012B	BZL0159	SZL0126	AL60024
16L0048-08	6.00 mL / 6.00 mL	SW9012B	BZL0159	SZL0126	AL60024
16L0048-09	6.00 mL / 6.00 mL	SW9012B	BZL0159	SZL0126	AL60024
16L0048-12	1.01 g / 100 mL	SW9012B	BZL0160	SZL0126	AL60024
16L0048-13	1.01 g / 100 mL	SW9012B	BZL0160	SZL0126	AL60024
16L0048-14	1.00 g / 100 mL	SW9012B	BZL0160	SZL0126	AL60024
16L0048-15	1.01 g / 100 mL	SW9012B	BZL0160	SZL0126	AL60024
16L0048-16	1.04 g / 100 mL	SW9012B	BZL0160	SZL0126	AL60024
16L0048-17	1.01 g / 100 mL	SW9012B	BZL0160	SZL0126	AL60024
16L0048-18	1.02 g / 100 mL	SW9012B	BZL0160	SZL0126	AL60024
16L0048-19	1.00 g / 100 mL	SW9012B	BZL0160	SZL0126	AL60024

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			Preparation Method:	SW3050B	
16L0048-11	1.02 g / 50.0 mL	SW6010C	BZL0097	SZL0105	AL60011
16L0048-11RE1	1.02 g / 50.0 mL	SW6010C	BZL0097	SZL0111	AL60011
16L0048-12	1.05 g / 50.0 mL	SW6010C	BZL0097	SZL0105	AL60011
16L0048-12RE1	1.05 g / 50.0 mL	SW6010C	BZL0097	SZL0111	AL60011
16L0048-13	1.08 g / 50.0 mL	SW6010C	BZL0097	SZL0105	AL60011
16L0048-13RE1	1.08 g / 50.0 mL	SW6010C	BZL0097	SZL0111	AL60011
16L0048-14	1.02 g / 50.0 mL	SW6010C	BZL0097	SZL0105	AL60011
16L0048-14RE1	1.02 g / 50.0 mL	SW6010C	BZL0097	SZL0111	AL60011
16L0048-15	1.03 g / 50.0 mL	SW6010C	BZL0097	SZL0105	AL60011
16L0048-15RE1	1.03 g / 50.0 mL	SW6010C	BZL0097	SZL0111	AL60011
16L0048-16	1.03 g / 50.0 mL	SW6010C	BZL0097	SZL0105	AL60011

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Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			Preparation Method:	SW3050B	
16L0048-16RE1	1.03 g / 50.0 mL	SW6010C	BZL0097	SZL0111	AL60011
16L0048-17	1.06 g / 50.0 mL	SW6010C	BZL0097	SZL0105	AL60011
16L0048-17RE1	1.06 g / 50.0 mL	SW6010C	BZL0097	SZL0111	AL60011
16L0048-18	1.03 g / 50.0 mL	SW6010C	BZL0097	SZL0105	AL60011
16L0048-18RE1	1.03 g / 50.0 mL	SW6010C	BZL0097	SZL0111	AL60011
16L0048-19	1.05 g / 50.0 mL	SW6010C	BZL0097	SZL0105	AL60011
16L0048-19RE1	1.05 g / 50.0 mL	SW6010C	BZL0097	SZL0111	AL60011
Semivolatile Organic Compounds by GCMS			Preparation Method:	SW3510C	
16L0048-01	820 mL / 1.00 mL	EPA625	BZL0098	SZL0243	AE60009
16L0048-05	810 mL / 1.00 mL	EPA625	BZL0098	SZL0243	AE60009
16L0048-06	760 mL / 1.00 mL	EPA625	BZL0098	SZL0243	AE60009
16L0048-08	890 mL / 1.00 mL	EPA625	BZL0098	SZL0243	AE60009
16L0048-09	950 mL / 1.00 mL	EPA625	BZL0098	SZL0243	AE60009
16L0048-01	820 mL / 1.00 mL	SW8270D	BZL0098	SZL0204	AE60009
16L0048-05	810 mL / 1.00 mL	SW8270D	BZL0098	SZL0204	AE60009
16L0048-06	760 mL / 1.00 mL	SW8270D	BZL0098	SZL0204	AE60009
16L0048-08	890 mL / 1.00 mL	SW8270D	BZL0098	SZL0204	AE60009
16L0048-09	950 mL / 1.00 mL	SW8270D	BZL0098	SZL0204	AE60009
16L0048-01	800 mL / 1.00 mL	SW8081B	BZL0129	SZL0195	AL60021
16L0048-05	790 mL / 1.00 mL	SW8081B	BZL0129	SZL0195	AL60021
16L0048-06	790 mL / 1.00 mL	SW8081B	BZL0129	SZL0195	AL60021
16L0048-08	890 mL / 1.00 mL	SW8081B	BZL0129	SZL0195	AL60021
16L0048-09	890 mL / 1.00 mL	SW8081B	BZL0129	SZL0195	AL60021
16L0048-01	800 mL / 1.00 mL	SW8082A	BZL0129	SZL0196	AK60132
16L0048-05	790 mL / 1.00 mL	SW8082A	BZL0129	SZL0196	AK60132
16L0048-06	790 mL / 1.00 mL	SW8082A	BZL0129	SZL0196	AK60132
16L0048-08	890 mL / 1.00 mL	SW8082A	BZL0129	SZL0196	AK60132

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Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Organochlorine Pesticides and PCBs by GC/ECD			Preparation Method: SW3510C		
16L0048-09	890 mL / 1.00 mL	SW8082A	BZL0129	SZL0196	AK60132
16L0048-07	960 mL / 1.00 mL	SW8015C	BZL0161	SZL0220	AL60025
16L0048-07	960 mL / 1.00 mL	ASTM	BZL0221	SZL0221	AL60025

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Organochlorine Pesticides and PCBs by GC/ECD			Preparation Method: SW3550B		
16L0048-12	15.1 g / 5.00 mL	SW8081B	BZL0126	SZL0195	AL60021
16L0048-13	16.7 g / 5.00 mL	SW8081B	BZL0126	SZL0195	AL60021
16L0048-14	16.7 g / 5.00 mL	SW8081B	BZL0126	SZL0195	AL60021
16L0048-15	15.8 g / 5.00 mL	SW8081B	BZL0126	SZL0195	AL60021
16L0048-16	15.2 g / 5.00 mL	SW8081B	BZL0126	SZL0195	AL60021
16L0048-17	15.1 g / 5.00 mL	SW8081B	BZL0126	SZL0195	AL60021
16L0048-18	15.9 g / 5.00 mL	SW8081B	BZL0126	SZL0195	AL60021
16L0048-19	15.8 g / 5.00 mL	SW8081B	BZL0126	SZL0195	AL60021
16L0048-12	15.1 g / 5.00 mL	SW8082A	BZL0126	SZL0196	AK60132
16L0048-13	16.7 g / 5.00 mL	SW8082A	BZL0126	SZL0196	AK60132
16L0048-14	16.7 g / 5.00 mL	SW8082A	BZL0126	SZL0196	AK60132
16L0048-15	15.8 g / 5.00 mL	SW8082A	BZL0126	SZL0196	AK60132
16L0048-16	15.2 g / 5.00 mL	SW8082A	BZL0126	SZL0196	AK60132
16L0048-17	15.1 g / 5.00 mL	SW8082A	BZL0126	SZL0196	AK60132
16L0048-18	15.9 g / 5.00 mL	SW8082A	BZL0126	SZL0196	AK60132
16L0048-19	15.8 g / 5.00 mL	SW8082A	BZL0126	SZL0196	AK60132

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Organic Compounds by GCMS			Preparation Method: SW3550C		
16L0048-12	16.8 g / 1.00 mL	SW8270D	BZL0162	SZL0240	AE60009
16L0048-13	15.4 g / 1.00 mL	SW8270D	BZL0162	SZL0240	AE60009

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Semivolatile Organic Compounds by GCMS			Preparation Method: SW3550C		
16L0048-14	15.1 g / 1.00 mL	SW8270D	BZL0162	SZL0240	AE60009
16L0048-15	16.3 g / 1.00 mL	SW8270D	BZL0162	SZL0240	AE60009
16L0048-16	16.3 g / 1.00 mL	SW8270D	BZL0162	SZL0240	AE60009
16L0048-17	16.1 g / 1.00 mL	SW8270D	BZL0162	SZL0240	AE60009
16L0048-18	16.3 g / 1.00 mL	SW8270D	BZL0162	SZL0240	AE60009
16L0048-19	15.9 g / 1.00 mL	SW8270D	BZL0162	SZL0240	AE60009

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS			Preparation Method: SW5030B		
16L0048-04	5.00 mL / 5.00 mL	SW8260B	BZL0099	SZL0086	AK60047
16L0048-05	5.00 mL / 5.00 mL	SW8260B	BZL0099	SZL0086	AK60047
16L0048-06	5.00 mL / 5.00 mL	SW8260B	BZL0099	SZL0086	AK60047
16L0048-08	5.00 mL / 5.00 mL	SW8260B	BZL0099	SZL0086	AK60047
16L0048-09	5.00 mL / 5.00 mL	SW8260B	BZL0099	SZL0086	AK60047
16L0048-10	5.00 mL / 5.00 mL	SW8260B	BZL0099	SZL0086	AK60047
16L0048-05RE1	5.00 mL / 5.00 mL	SW8260B	BZL0185	SZL0165	AK60091
16L0048-12	10.0 g / 10.0 mL	SW8260B	BZL0206	SZL0191	AK60091
16L0048-13	10.0 g / 10.0 mL	SW8260B	BZL0206	SZL0191	AK60091
16L0048-14	10.2 g / 10.0 mL	SW8260B	BZL0206	SZL0191	AK60091
16L0048-15	10.1 g / 10.0 mL	SW8260B	BZL0206	SZL0191	AK60091
16L0048-16	10.4 g / 10.0 mL	SW8260B	BZL0206	SZL0191	AK60091
16L0048-17	10.1 g / 10.0 mL	SW8260B	BZL0206	SZL0191	AK60091
16L0048-18	10.0 g / 10.0 mL	SW8260B	BZL0206	SZL0191	AK60091
16L0048-19	10.1 g / 10.0 mL	SW8260B	BZL0206	SZL0191	AK60091

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 200 Series Methods			Preparation Method: SW7470A		

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Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 200 Series Methods			Preparation Method:	SW7470A	
16L0048-02	20.0 mL / 20.0 mL	EPA245.1 R3.0	BZL0189	SZL0187	AL60032
16L0048-05	20.0 mL / 20.0 mL	EPA245.1 R3.0	BZL0189	SZL0187	AL60032
16L0048-06	20.0 mL / 20.0 mL	EPA245.1 R3.0	BZL0189	SZL0187	AL60032
16L0048-08	20.0 mL / 20.0 mL	EPA245.1 R3.0	BZL0189	SZL0187	AL60032
16L0048-09	20.0 mL / 20.0 mL	EPA245.1 R3.0	BZL0189	SZL0187	AL60032

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			Preparation Method:	SW7471A	
16L0048-11	0.514 g / 20.0 mL	SW7471B	BZL0148	SZL0141	AL60023
16L0048-12	0.525 g / 20.0 mL	SW7471B	BZL0148	SZL0141	AL60023
16L0048-13	0.518 g / 20.0 mL	SW7471B	BZL0148	SZL0141	AL60023
16L0048-13RE1	0.518 g / 20.0 mL	SW7471B	BZL0148	SZL0141	AL60023
16L0048-14	0.543 g / 20.0 mL	SW7471B	BZL0148	SZL0141	AL60023
16L0048-14RE1	0.543 g / 20.0 mL	SW7471B	BZL0148	SZL0141	AL60023
16L0048-15	0.536 g / 20.0 mL	SW7471B	BZL0148	SZL0141	AL60023
16L0048-16	0.530 g / 20.0 mL	SW7471B	BZL0148	SZL0141	AL60023
16L0048-16RE1	0.530 g / 20.0 mL	SW7471B	BZL0148	SZL0141	AL60023
16L0048-17	0.522 g / 20.0 mL	SW7471B	BZL0148	SZL0141	AL60023
16L0048-17RE1	0.522 g / 20.0 mL	SW7471B	BZL0148	SZL0141	AL60023
16L0048-18	0.559 g / 20.0 mL	SW7471B	BZL0148	SZL0141	AL60023
16L0048-19	0.529 g / 20.0 mL	SW7471B	BZL0148	SZL0141	AL60023

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Certified Analyses included in this Report

Analyte	Certifications
<i>EPA200.7 Rev 4.4 in Non-Potable Water</i>	
Beryllium	VELAP,NC,WVDEP
Cadmium	VELAP,NC,WVDEP
Chromium	VELAP,NC,WVDEP
Copper	VELAP,NC,WVDEP
Lead	VELAP,NC,WVDEP
Nickel	VELAP,NC,WVDEP
Silver	VELAP,NC,WVDEP
Zinc	VELAP,NC,WVDEP
<i>EPA245.1 R3.0 in Non-Potable Water</i>	
Mercury	VELAP,NC,WVDEP
<i>SW6010C in Solids</i>	
Antimony	VELAP
Arsenic	VELAP
Beryllium	VELAP
Cadmium	VELAP,WVDEP
Chromium	VELAP
Copper	VELAP
Lead	VELAP,WVDEP
Nickel	VELAP
Selenium	VELAP,WVDEP
Silver	VELAP,WVDEP
Thallium	VELAP
Zinc	VELAP
<i>SW7010 in Non-Potable Water</i>	
Antimony	VELAP,NC
Arsenic	VELAP,NC

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Certified Analyses included in this Report

Analyte	Certifications
Selenium	VELAP,NC
Thallium	VELAP,NC
SW7471B in Solids	
Mercury	VELAP,WVDEP
SW8015C in Non-Potable Water	
TPH-Semi-Volatiles (DRO)	VELAP,NC,WVDEP
SW8081B in Non-Potable Water	
4,4'-DDD	NC,VELAP,WVDEP
4,4'-DDE	NC,VELAP,WVDEP
4,4'-DDT	NC,VELAP,WVDEP
Aldrin	NC,VELAP,WVDEP
alpha-BHC	NC,VELAP,WVDEP
beta-BHC	NC,VELAP,WVDEP
Chlordane	NC,VELAP,WVDEP
delta-BHC	NC,VELAP,WVDEP
Dieldrin	NC,VELAP,WVDEP
Endosulfan I	NC,VELAP,WVDEP
Endosulfan II	NC,VELAP,WVDEP
Endosulfan sulfate	NC,VELAP,WVDEP
Endrin	NC,VELAP,WVDEP
Endrin aldehyde	NC,VELAP,WVDEP
gamma-BHC (Lindane)	NC,VELAP,WVDEP
Heptachlor	NC,VELAP,WVDEP
Heptachlor epoxide	NC,VELAP,WVDEP
Methoxychlor	NC,VELAP,WVDEP
Toxaphene	NC,VELAP,WVDEP
SW8081B in Solids	

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Analyte	Certifications
alpha-BHC	NC,VELAP
beta-BHC	NC,VELAP
Chlordane	NC,VELAP
delta-BHC	NC,VELAP
Dieldrin	NC,VELAP
Endosulfan I	NC,VELAP
Endosulfan II	NC,VELAP
Endosulfan sulfate	NC,VELAP
Endrin	NC,VELAP
Endrin aldehyde	NC,VELAP
Endrin ketone	NC,VELAP
gamma-BHC (Lindane)	NC,VELAP
Heptachlor	NC,VELAP
Heptachlor epoxide	NC,VELAP
Methoxychlor	NC,VELAP
Mirex	NC,VELAP
Toxaphene	NC,VELAP
SW8082A in Non-Potable Water	
PCB as Aroclor 1016	VELAP,NC,WVDEP
PCB as Aroclor 1221	VELAP,NC,WVDEP
PCB as Aroclor 1232	VELAP,NC,WVDEP
PCB as Aroclor 1242	VELAP,NC,WVDEP
PCB as Aroclor 1248	VELAP,NC,WVDEP
PCB as Aroclor 1254	VELAP,NC,WVDEP
PCB as Aroclor 1260	VELAP,NC,WVDEP
SW8082A in Solids	
PCB as Aroclor 1016	VELAP,NC
PCB as Aroclor 1221	VELAP,NC

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Certified Analyses included in this Report

Analyte	Certifications
PCB as Aroclor 1232	VELAP,NC
PCB as Aroclor 1242	VELAP,NC
PCB as Aroclor 1248	VELAP,NC
PCB as Aroclor 1254	VELAP,NC
PCB as Aroclor 1260	VELAP,NC
<i>SW8260B in Non-Potable Water</i>	
1,1,1,2-Tetrachloroethane	NC,VELAP,WVDEP
1,1,1-Trichloroethane	NC,VELAP,WVDEP
1,1,2,2-Tetrachloroethane	NC,VELAP,WVDEP
1,1,2-Trichloroethane	NC,VELAP,WVDEP
1,1-Dichloroethane	NC,VELAP,WVDEP
1,1-Dichloroethylene	NC,VELAP,WVDEP
1,1-Dichloropropene	NC,VELAP,WVDEP
1,2,3-Trichlorobenzene	NC,VELAP,WVDEP
1,2,3-Trichloropropane	NC,VELAP,WVDEP
1,2,4-Trichlorobenzene	NC,VELAP,WVDEP
1,2,4-Trimethylbenzene	NC,VELAP,WVDEP
1,2-Dibromo-3-chloropropane (DBCP)	NC,VELAP,WVDEP
1,2-Dibromoethane (EDB)	NC,VELAP,WVDEP
1,2-Dichlorobenzene	NC,VELAP,WVDEP
1,2-Dichloroethane	NC,VELAP,WVDEP
1,2-Dichloropropane	NC,VELAP,WVDEP
1,3,5-Trimethylbenzene	NC,WVDEP
1,3-Dichlorobenzene	NC,VELAP,WVDEP
1,3-Dichloropropane	NC,VELAP,WVDEP
1,4-Dichlorobenzene	NC,VELAP,WVDEP
2,2-Dichloropropane	NC,VELAP,WVDEP
2-Butanone (MEK)	NC,VELAP,WVDEP

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gasworks
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Certified Analyses included in this Report

Analyte	Certifications
2-Chlorotoluene	NC,VELAP,WVDEP
2-Hexanone (MBK)	NC,VELAP,WVDEP
4-Chlorotoluene	NC,VELAP,WVDEP
4-Isopropyltoluene	NC,VELAP,WVDEP
4-Methyl-2-pentanone (MIBK)	NC,VELAP,WVDEP
Acetone	NC,VELAP,WVDEP
Benzene	NC,VELAP,WVDEP
Bromobenzene	NC,VELAP,WVDEP
Bromochloromethane	NC,VELAP,WVDEP
Bromodichloromethane	NC,VELAP,WVDEP
Bromoform	NC,VELAP,WVDEP
Bromomethane	NC,VELAP,WVDEP
Carbon disulfide	NC,VELAP,WVDEP
Carbon tetrachloride	NC,VELAP,WVDEP
Chlorobenzene	NC,VELAP,WVDEP
Chloroethane	NC,VELAP,WVDEP
Chloroform	NC,VELAP,WVDEP
Chloromethane	NC,VELAP,WVDEP
cis-1,2-Dichloroethylene	NC,VELAP,WVDEP
cis-1,3-Dichloropropene	NC,VELAP,WVDEP
Dibromochloromethane	NC,VELAP,WVDEP
Dibromomethane	NC,VELAP,WVDEP
Dichlorodifluoromethane	NC,VELAP,WVDEP
Di-isopropyl ether (DIPE)	NC,VELAP,WVDEP
Ethylbenzene	NC,VELAP,WVDEP
Hexachlorobutadiene	NC,VELAP,WVDEP
Iodomethane	NC,VELAP,WVDEP
Isopropylbenzene	NC,VELAP,WVDEP

Certificate of Analysis

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Certified Analyses included in this Report

Analyte	Certifications
m+p-Xylenes	NC, VELAP, WVDEP
Methylene chloride	NC, VELAP, WVDEP
Methyl-t-butyl ether (MTBE)	NC, VELAP, WVDEP
Naphthalene	NC, VELAP, WVDEP
n-Butylbenzene	NC, VELAP, WVDEP
n-Propylbenzene	NC, VELAP, WVDEP
o-Xylene	NC, VELAP, WVDEP
sec-Butylbenzene	NC, VELAP, WVDEP
Styrene	NC, VELAP, WVDEP
tert-Butylbenzene	NC, VELAP, WVDEP
Tetrachloroethylene (PCE)	NC, VELAP, WVDEP
Toluene	NC, VELAP, WVDEP
trans-1,2-Dichloroethylene	NC, VELAP, WVDEP
trans-1,3-Dichloropropene	NC, VELAP, WVDEP
Trichloroethylene	NC, VELAP, WVDEP
Trichlorofluoromethane	NC, VELAP, WVDEP
Vinyl acetate	NC, VELAP, WVDEP
Vinyl chloride	NC, VELAP, WVDEP
Xylenes, Total	NC, VELAP, WVDEP
SW8260B in Solids	
1,1,1,2-Tetrachloroethane	NC, VELAP, WVDEP
1,1,1-Trichloroethane	NC, VELAP, WVDEP
1,1,2,2-Tetrachloroethane	NC, VELAP, WVDEP
1,1,2-Trichloroethane	NC, VELAP, WVDEP
1,1-Dichloroethane	NC, VELAP, WVDEP
1,1-Dichloroethylene	NC, VELAP, WVDEP
1,1-Dichloropropene	NC, VELAP, WVDEP
1,2,3-Trichlorobenzene	NC, VELAP, WVDEP

Certificate of Analysis

Client Name: Timmons Group
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Submitted To: Julia Campus

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Analyte	Certifications
1,2,3-Trichloropropane	NC, VELAP, WVDEP
1,2,4-Trichlorobenzene	NC, VELAP, WVDEP
1,2,4-Trimethylbenzene	NC, VELAP, WVDEP
1,2-Dibromo-3-chloropropane (DBCP)	NC, VELAP, WVDEP
1,2-Dibromoethane (EDB)	NC, VELAP, WVDEP
1,2-Dichlorobenzene	NC, VELAP, WVDEP
1,2-Dichloroethane	NC, VELAP, WVDEP
1,2-Dichloropropane	NC, VELAP, WVDEP
1,3,5-Trimethylbenzene	NC, VELAP, WVDEP
1,3-Dichlorobenzene	NC, VELAP, WVDEP
1,3-Dichloropropane	NC, VELAP, WVDEP
1,4-Dichlorobenzene	NC, VELAP, WVDEP
2,2-Dichloropropane	NC, VELAP, WVDEP
2-Butanone (MEK)	NC, VELAP, WVDEP
2-Chlorotoluene	NC, VELAP, WVDEP
2-Hexanone (MBK)	NC, VELAP, WVDEP
4-Chlorotoluene	NC, VELAP, WVDEP
4-Isopropyltoluene	NC, VELAP, WVDEP
4-Methyl-2-pentanone (MIBK)	NC, VELAP, WVDEP
Acetone	NC, VELAP, WVDEP
Benzene	NC, VELAP, WVDEP
Bromobenzene	NC, VELAP, WVDEP
Bromochloromethane	NC, VELAP, WVDEP
Bromodichloromethane	NC, VELAP, WVDEP
Bromoform	NC, VELAP, WVDEP
Bromomethane	NC, VELAP, WVDEP
Carbon disulfide	NC, VELAP, WVDEP
Carbon tetrachloride	NC, VELAP, WVDEP

Certificate of Analysis

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Certified Analyses included in this Report

Analyte	Certifications
Chlorobenzene	NC, VELAP, WVDEP
Chloroethane	NC, VELAP, WVDEP
Chloroform	NC, VELAP, WVDEP
Chloromethane	NC, VELAP, WVDEP
cis-1,2-Dichloroethylene	NC, VELAP, WVDEP
cis-1,3-Dichloropropene	NC, VELAP, WVDEP
Dibromochloromethane	NC, VELAP, WVDEP
Dibromomethane	NC, VELAP, WVDEP
Dichlorodifluoromethane	NC, VELAP, WVDEP
Di-isopropyl ether (DIPE)	NC, VELAP, WVDEP
Ethylbenzene	NC, VELAP, WVDEP
Hexachlorobutadiene	NC, VELAP, WVDEP
Iodomethane	NC, VELAP, WVDEP
Isopropylbenzene	NC, VELAP, WVDEP
m+p-Xylenes	NC, VELAP, WVDEP
Methylene chloride	NC, VELAP, WVDEP
Methyl-t-butyl ether (MTBE)	NC, VELAP, WVDEP
Naphthalene	NC, VELAP, WVDEP
n-Butylbenzene	NC, VELAP, WVDEP
n-Propylbenzene	NC, VELAP, WVDEP
o-Xylene	NC, VELAP, WVDEP
sec-Butylbenzene	NC, VELAP, WVDEP
Styrene	NC, VELAP, WVDEP
tert-Butylbenzene	NC, VELAP, WVDEP
Tetrachloroethylene (PCE)	NC, VELAP, WVDEP
Toluene	NC, VELAP, WVDEP
trans-1,2-Dichloroethylene	NC, VELAP, WVDEP
trans-1,3-Dichloropropene	NC, VELAP, WVDEP

Certificate of Analysis

Client Name: Timmons Group
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Analyte	Certifications
Trichloroethylene	NC,VELAP,WVDEP
Trichlorofluoromethane	NC,VELAP,WVDEP
Vinyl acetate	NC,VELAP,WVDEP
Vinyl chloride	NC,VELAP,WVDEP
Xylenes, Total	NC,VELAP,WVDEP
Dibromofluoromethane (Surr)	VELAP
SW8270D in Non-Potable Water	
1,2,4,5-Tetrachlorobenzene	VELAP,WVDEP,NC
1,2,4-Trichlorobenzene	VELAP,WVDEP,NC
1,2-Dichlorobenzene	VELAP,WVDEP,NC
1,2-Diphenylhydrazine	VELAP,WVDEP,NC
1,3-Dichlorobenzene	VELAP,WVDEP,NC
1,3-Dinitrobenzene	VELAP,WVDEP,NC
1,4-Dichlorobenzene	VELAP,WVDEP,NC
1-Naphthylamine	VELAP,WVDEP,NC
2,3,4,6-Tetrachlorophenol	VELAP,WVDEP,NC
2,4,5-Trichlorophenol	VELAP,WVDEP,NC
2,4,6-Trichlorophenol	VELAP,WVDEP,NC
2,4-Dichlorophenol	VELAP,WVDEP,NC
2,4-Dimethylphenol	VELAP,WVDEP,NC
2,4-Dinitrophenol	VELAP,WVDEP,NC
2,4-Dinitrotoluene	VELAP,WVDEP,NC
2,6-Dichlorophenol	VELAP,WVDEP,NC
2,6-Dinitrotoluene	VELAP,WVDEP,NC
2-Chloronaphthalene	VELAP,WVDEP,NC
2-Chlorophenol	VELAP,WVDEP,NC
2-Methylnaphthalene	VELAP,WVDEP,NC
2-Naphthylamine	VELAP,WVDEP,NC

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Client Name: Timmons Group
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Analyte	Certifications
2-Nitroaniline	VELAP,WVDEP,NC
2-Nitrophenol	VELAP,WVDEP,NC
3,3'-Dichlorobenzidine	VELAP,WVDEP,NC
3-Methylcholanthrene	VELAP,WVDEP,NC
3-Nitroaniline	VELAP,WVDEP,NC
4,6-Dinitro-2-methylphenol	VELAP,WVDEP,NC
4-Aminobiphenyl	VELAP,WVDEP,NC
4-Bromophenyl phenyl ether	VELAP,WVDEP,NC
4-Chloroaniline	VELAP,WVDEP,NC
4-Chlorophenyl phenyl ether	VELAP,WVDEP,NC
4-Nitroaniline	VELAP,WVDEP,NC
4-Nitrophenol	VELAP,WVDEP,NC
7,12-Dimethylbenz (a) anthracene	VELAP,WVDEP,NC
Acenaphthene	VELAP,WVDEP,NC
Acenaphthylene	VELAP,WVDEP,NC
Acetophenone	VELAP,WVDEP,NC
Aniline	VELAP,WVDEP,NC
Anthracene	VELAP,WVDEP,NC
Benzidine	VELAP,WVDEP,NC
Benzo (a) anthracene	VELAP,WVDEP,NC
Benzo (a) pyrene	VELAP,WVDEP,NC
Benzo (b) fluoranthene	VELAP,WVDEP,NC
Benzo (g,h,i) perylene	VELAP,WVDEP,NC
Benzo (k) fluoranthene	VELAP,WVDEP,NC
Benzoic acid	VELAP,WVDEP,NC
Benzyl alcohol	VELAP,WVDEP,NC
bis (2-Chloroethoxy) methane	VELAP,WVDEP,NC
bis (2-Chloroethyl) ether	VELAP,WVDEP,NC

Certificate of Analysis

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Analyte	Certifications
2,2'-Oxybis (1-chloropropane)	VELAP,WVDEP,NC
bis (2-Ethylhexyl) phthalate	VELAP,WVDEP,NC
Butyl benzyl phthalate	VELAP,WVDEP,NC
Chrysene	VELAP,WVDEP,NC
Dibenz (a,h) anthracene	VELAP,WVDEP,NC
Dibenz (a,j) acridine	VELAP,WVDEP,NC
Dibenzofuran	VELAP,WVDEP,NC
Diethyl phthalate	VELAP,WVDEP,NC
Dimethyl phthalate	VELAP,WVDEP,NC
Di-n-butyl phthalate	VELAP,WVDEP,NC
Di-n-octyl phthalate	VELAP,WVDEP,NC
Diphenylamine	VELAP,WVDEP,NC
Ethyl methanesulfonate	VELAP,WVDEP,NC
Fluoranthene	VELAP,WVDEP,NC
Fluorene	VELAP,WVDEP,NC
Hexachlorobenzene	VELAP,WVDEP,NC
Hexachlorobutadiene	VELAP,WVDEP,NC
Hexachlorocyclopentadiene	VELAP,WVDEP,NC
Hexachloroethane	VELAP,WVDEP,NC
Indeno (1,2,3-cd) pyrene	VELAP,WVDEP,NC
Isophorone	VELAP,WVDEP,NC
m+p-Cresols	VELAP,WVDEP,NC
Methyl methanesulfonate	VELAP,WVDEP,NC
Naphthalene	VELAP,WVDEP,NC
Nitrobenzene	VELAP,WVDEP,NC
n-Nitrosodimethylamine	VELAP,WVDEP,NC
n-Nitrosodi-n-butylamine	VELAP,WVDEP,NC
n-Nitrosodi-n-propylamine	VELAP,WVDEP,NC

Certificate of Analysis

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Certified Analyses included in this Report

<u>Analyte</u>	<u>Certifications</u>
n-Nitrosodiphenylamine	VELAP,WVDEP,NC
n-Nitrosopiperidine	VELAP,WVDEP,NC
o+m+p-Cresols	WVDEP,NC
o-Cresol	VELAP,WVDEP,NC
p-(Dimethylamino) azobenzene	VELAP,WVDEP,NC
p-Chloro-m-cresol	VELAP,WVDEP,NC
Pentachloronitrobenzene (quintozene)	VELAP,WVDEP,NC
Pentachlorophenol	VELAP,WVDEP,NC
Phenacetin	VELAP,WVDEP,NC
Phenanthrene	VELAP,WVDEP,NC
Phenol	VELAP,WVDEP,NC
Pronamide	VELAP,WVDEP,NC
Pyrene	VELAP,WVDEP,NC
Pyridine	VELAP,WVDEP,NC
SW8270D in Solids	
1,2,4,5-Tetrachlorobenzene	NC,VELAP,WVDEP
1,2,4-Trichlorobenzene	NC,VELAP,WVDEP
1,2-Dichlorobenzene	NC,VELAP,WVDEP
1,2-Diphenylhydrazine	NC,VELAP,WVDEP
1,3-Dichlorobenzene	NC,VELAP,WVDEP
1,4-Dichlorobenzene	NC,VELAP,WVDEP
1-Chloronaphthalene	NC,VELAP,WVDEP
1-Naphthylamine	NC,VELAP,WVDEP
2,3,4,6-Tetrachlorophenol	NC,VELAP,WVDEP
2,4,5-Trichlorophenol	NC,VELAP,WVDEP
2,4,6-Trichlorophenol	NC,VELAP,WVDEP
2,4-Dichlorophenol	NC,VELAP,WVDEP
2,4-Dimethylphenol	NC,VELAP,WVDEP

Certificate of Analysis

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Analyte	Certifications
2,4-Dinitrophenol	NC, VELAP, WVDEP
2,4-Dinitrotoluene	NC, VELAP, WVDEP
2,6-Dichlorophenol	NC, VELAP, WVDEP
2,6-Dinitrotoluene	NC, VELAP, WVDEP
2-Chloronaphthalene	NC, VELAP, WVDEP
2-Chlorophenol	NC, VELAP, WVDEP
2-Methylnaphthalene	NC, VELAP, WVDEP
2-Naphthylamine	NC, VELAP, WVDEP
2-Nitroaniline	NC, VELAP, WVDEP
2-Nitrophenol	NC, VELAP, WVDEP
3-Methylcholanthrene	NC, VELAP, WVDEP
3-Nitroaniline	NC, VELAP, WVDEP
4,6-Dinitro-2-methylphenol	NC, VELAP, WVDEP
4-Aminobiphenyl	NC, VELAP, WVDEP
4-Bromophenyl phenyl ether	NC, VELAP, WVDEP
4-Chloroaniline	NC, VELAP, WVDEP
4-Chlorophenyl phenyl ether	NC, VELAP, WVDEP
4-Nitroaniline	NC, VELAP, WVDEP
4-Nitrophenol	NC, VELAP, WVDEP
7,12-Dimethylbenz (a) anthracene	NC, VELAP, WVDEP
Acenaphthene	NC, VELAP, WVDEP
Acenaphthylene	NC, VELAP, WVDEP
Acetophenone	NC, VELAP, WVDEP
Aniline	NC, VELAP, WVDEP
Anthracene	NC, VELAP, WVDEP
Benzidine	NC, VELAP, WVDEP
Benzo (a) anthracene	NC, VELAP, WVDEP
Benzo (a) pyrene	NC, VELAP, WVDEP

Certificate of Analysis

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Analyte	Certifications
Benzo (b) fluoranthene	NC,VELAP,WVDEP
Benzo (g,h,i) perylene	NC,VELAP,WVDEP
Benzo (k) fluoranthene	NC,VELAP,WVDEP
Benzoic acid	NC,VELAP,WVDEP
Benzyl alcohol	NC,VELAP,WVDEP
bis (2-Chloroethoxy) methane	NC,VELAP,WVDEP
bis (2-Chloroethyl) ether	NC,VELAP,WVDEP
2,2'-Oxybis (1-chloropropane)	NC,VELAP,WVDEP
bis (2-Ethylhexyl) phthalate	NC,VELAP,WVDEP
Butyl benzyl phthalate	NC,VELAP,WVDEP
Chrysene	NC,VELAP,WVDEP
Dibenz (a,h) anthracene	NC,VELAP,WVDEP
Dibenz (a,j) acridine	NC,VELAP,WVDEP
Dibenzofuran	NC,VELAP,WVDEP
Diethyl phthalate	NC,VELAP,WVDEP
Dimethyl phthalate	NC,VELAP,WVDEP
Di-n-butyl phthalate	NC,VELAP,WVDEP
Di-n-octyl phthalate	NC,VELAP,WVDEP
Diphenylamine	NC,VELAP,WVDEP
Ethyl methanesulfonate	NC,VELAP,WVDEP
Fluoranthene	NC,VELAP,WVDEP
Fluorene	NC,VELAP,WVDEP
Hexachlorobenzene	NC,VELAP,WVDEP
Hexachlorobutadiene	NC,VELAP,WVDEP
Hexachlorocyclopentadiene	NC,VELAP,WVDEP
Hexachloroethane	NC,VELAP,WVDEP
Indeno (1,2,3-cd) pyrene	NC,VELAP,WVDEP
Isophorone	NC,VELAP,WVDEP

Certificate of Analysis

Client Name: Timmons Group
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Certified Analyses included in this Report

Analyte	Certifications
m+p-Cresols	NC,VELAP,WVDEP
Methyl methanesulfonate	NC,VELAP,WVDEP
Naphthalene	NC,VELAP,WVDEP
Nitrobenzene	NC,VELAP,WVDEP
n-Nitrosodimethylamine	NC,VELAP,WVDEP
n-Nitrosodi-n-butylamine	NC,VELAP,WVDEP
n-Nitrosodi-n-propylamine	NC,VELAP,WVDEP
n-Nitrosodiphenylamine	NC,VELAP,WVDEP
n-Nitrosopiperidine	NC,VELAP,WVDEP
o+m+p-Cresols	NC,VELAP,WVDEP
o-Cresol	NC,VELAP,WVDEP
p-(Dimethylamino) azobenzene	NC,VELAP,WVDEP
p-Chloro-m-cresol	NC,VELAP,WVDEP
Pentachloronitrobenzene (quintozene)	NC,WVDEP
Pentachlorophenol	NC,VELAP,WVDEP
Phenacetin	NC,VELAP,WVDEP
Phenanthrene	NC,VELAP,WVDEP
Phenol	NC,VELAP,WVDEP
Pronamide	NC,VELAP,WVDEP
Pyrene	NC,VELAP,WVDEP
Pyridine	NC,VELAP,WVDEP
SW9012B in Non-Potable Water	
Cyanide	VELAP
SW9012B in Solids	
Cyanide	VELAP
SW9045D in Solids	
pH	VELAP,NC

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
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Date Issued: 11/22/2017 11:35:12AM

Code	Description	Cert Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2017
NC	North Carolina DENR	495	12/31/2017
PADEP	NELAC-Pennsylvania	001	10/31/2017
VELAP Certificate #4337	NELAC-Virginia Certificate #9475	460021	06/14/2018
WVDEP	West Virginia DEP	350	11/30/2017

Certificate of Analysis

Client Name: Timmons Group
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Qualifiers and Definitions

C Continuing calibration verification response for this analyte is outside specifications.

Cl Residual Chlorine or other oxidizing agent was detected in the container used to analyze this sample.

DND Not Detected

DS Surrogate concentration reflects a dilution factor.

E Estimated concentration, outside calibration range

J The reported result is an estimated value.

L LCS recovery is outside of established acceptance limits

M Matrix spike recovery is outside established acceptance limits

M2 Sample was diluted due to matrix interference.

P Duplicate analysis does not meet the acceptance criteria for precision

PETID13 No match with any petroleum pattern in our library.

S Surrogate recovery was outside acceptance criteria

RPD Relative Percent Difference

Qual Qualifiers

-RE Denotes sample was re-analyzed

LOD Limit of Detection

BLOD Below Limit of Detection

LOQ Limit of Quantitation

DF Dilution Factor

Certificate of Analysis

Client Name: Timmons Group
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Submitted To: Julia Campus

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TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

PCBs, Total Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

CHAIN OF CUSTODY

PAGE 1 OF 2

COMPANY NAME: <u>Timmons Group</u>	INVOICE TO: <u>Julia Campus</u>	PROJECT NAME/Quote #: <u>Fulton Gas Works</u>
CONTACT: <u>Julia Campus</u>	INVOICE CONTACT:	SITE NAME:
ADDRESS: <u>1001 Boulders Pkwy Sp300</u>	INVOICE ADDRESS: <u>Same</u>	PROJECT NUMBER: <u>36156.015</u>
PHONE #: <u>804 201 1549</u>	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL: <u>julia.campus@timmons.com</u>	Pretreatment Program:

Is sample for compliance reporting? YES <input checked="" type="radio"/> NO <input type="radio"/>	Is sample from a chlorinated supply? YES <input checked="" type="radio"/> NO <input type="radio"/>	PWS I.D. #:
SAMPLER NAME (PRINT): <u>Julia Campus</u>	SAMPLER SIGNATURE: <u>[Signature]</u>	Turn Around Time: <u>8H</u> Day(s)

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other _____

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE)							COMMENTS	
											SVOCs	Pesticides	PPL Metals / HNO ₃	Cyanide / NaOH	VOCS / HCl	2,3,7,8-TCDF (S.M)			
1) MW-22	X					12/1/16	9:47		GW	2	X	X				X			
2) MW-22	X					12/1/16	11:29		GW	1			X						
3) MW-22	X					12/1/16	11:50		GW	1			X						
4) MW-22	X					12/1/16	10:30		GW	3				X					
5) MW-23	X					12/1/16	10:10		GW	7	X	X	X	X	X	X			
6) MW-24	X					12/1/16	12:50		GW	7	X	X	X	X	X	X			
7) MW-26	X					12/1/16	10:50		GW	2									
8) MW-29	X					12/1/16	12:00		GW	7	X	X	X	X	X	X			On loc
9) MW-30	X					12/1/16	11:40		GW	7	X	X	X	X	X	X			No Seal
10)																			16°C @ 12/1/16

RELINQUISHED: <u>[Signature]</u> DATE / TIME: <u>12/1/16 16:20</u>	RECEIVED: <u>[Signature]</u> DATE / TIME: <u>12/1/16 16:07</u>	QC Data Package	LAB USE ONLY	COOLER TEMP °C
RELINQUISHED: _____ DATE / TIME: _____	RECEIVED: _____ DATE / TIME: _____	Level I <input type="checkbox"/>	TG Fulton Gasworks Recd: 12/01/2016 Due: 12/08/2016	16L0048
RELINQUISHED: _____ DATE / TIME: _____	RECEIVED: _____ DATE / TIME: _____	Level II <input type="checkbox"/>		
RELINQUISHED: _____ DATE / TIME: _____	RECEIVED: _____ DATE / TIME: _____	Level III <input type="checkbox"/>		
RELINQUISHED: _____ DATE / TIME: _____	RECEIVED: _____ DATE / TIME: _____	Level IV <input type="checkbox"/>		

CHAIN OF CUSTODY

PAGE 2 OF 2

COMPANY NAME: <u>Timmons group</u>	INVOICE TO: <u>Timmons group</u>	PROJECT NAME/Quote #: <u>Fulton Gas works</u>
CONTACT: <u>Julia Campus</u>	INVOICE CONTACT: <u>Julia Campus</u>	SITE NAME:
ADDRESS: <u>1001 Boulders Pkwy Ste 300</u>	INVOICE ADDRESS: <u>same</u>	PROJECT NUMBER: <u>36156.015</u>
PHONE #: <u>804 201 1549</u>	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL: <u>julia.campus@timmons.com</u>	Pretreatment Program:

Is sample for compliance reporting? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Is sample from a chlorinated supply? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	PWS I.D. #:
SAMPLER NAME (PRINT): <u>John Russell</u>		Turn Around Time: <u>Std</u> Day(s)
SAMPLER SIGNATURE: <u>[Signature]</u>		

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE)							COMMENTS				
											VOCS	SVOCs	PPL Metals	Cyanide	Pesticides	PCBs	pH					
1) SB-22	X					12/30/16	10:30		S	1			X									
2) SB-23	X					11/30/16	11:00		S	4												
3) SB-24	X					11/30/16	16:45		S	4												
4) SB-25	X					11/30/16	15:30		S	4												
5) SB-26	X					11/30/16	11:30		S	4												
6) SB-27	X					11/30/16	12:30		S	4												
7) SB-28	X					11/30/16	13:00		S	4												
8) SB-29	X					11/30/16	14:15		S	4												
9) SB-30 DR	X					11/30/16	16:45		S	4												
10)																						on 16 No Seal

RELINQUISHED: <u>[Signature]</u>	DATE / TIME: <u>12/1/16 15:28</u>	RECEIVED: <u>[Signature]</u>	DATE / TIME: <u>12/1/16 15:28</u>	QC Data Package	LAB USE ONLY	COOLER TEMP: <u>1.6</u> °C
RELINQUISHED: <u>[Signature]</u>	DATE / TIME: <u>12/1/16 16:57</u>	RECEIVED: <u>[Signature]</u>	DATE / TIME: <u>12/1/16 16:07</u>	Level I <input type="checkbox"/>	TG Fulton Gasworks Recd: 12/01/2016 Due: 12/08/2016	16L0048
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level II <input type="checkbox"/>		
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level III <input type="checkbox"/>		
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level IV <input type="checkbox"/>		



Sample Preservation Log

Sample Preservation Log
 Form #: F1301
 Rev # 6.0
 Effective: Aug 31, 2016
 Page 1 of 1

Order ID: 16L0648

Date Performed: 12/2/16

Analyst Performing Check: RJR

P/A = Present/Absent

Sample ID	Container ID	Metals		Cyanide		Sulfide		Ammonia		TKN		Phos, Tot		NO3+NO2		DRO		Pesticide (8081/608)		SVOC (8270/625)			P.I.P.		
		pH as Received	Final pH (If adjust.)	pH as Received	Final pH (If adjust.)	pH as Received	Final pH (If adjust.)	pH as Received	Final pH (If adjust.)	pH as Received	Final pH (If adjust.)	pH as Received	Final pH (If adjust.)	pH as Received	Final pH (If adjust.)	pH as Received	Final pH (If adjust.)	Res. Cl as Received	Res. Cl as Received	Res. Cl as Received	pH as Received	Final pH (If adjust.)	pH as Received	Final pH (If adjust.)	
		< 2	Other	> 12	Other	> 9	Other	< 2	Other	< 2	Other	< 2	Other	< 2	Other	< 2	Other	< 2	Other	Present	Absent	Present	Absent	Present	Absent
01	B																		✓			✓			
02	A	✓																							
03	A			✓																					
05	B																		✓			✓			
05	C			✓																					
05	D	✓																							
06	A																		✓	A	✓	A			
06	B																		✓	A	✓	A			
06	C			✓																					
06	D	✓																							
07	A																								7
07	B																								7
08	A																		✓	A	✓	A			
08	B																		✓	A	✓	A			
08	C			✓																					

NaOH ID: _____

HNO3 ID: _____

CrVI preserved date/time: _____

Analyst Initials: _____

H2SO4 ID: _____

Na2S2O3 ID: GK00045

Buffer Sol'n ID: _____

HCL ID: 6F01670

Na2SO3 ID: _____

1N NaOH ID: _____

5N NaOH: _____



Sample Preservation Log

Sample Preservation Log
Form #: F1301
Rev # 6.0
Effective: Aug 31, 2016
Page 1 of 1

Order ID 16L0048

Date Performed: 12/2/16

Analyst Performing Check: BR

P/A = Present/Absent

Sample ID	Container ID	Metals		Cyanide		Sulfide		Ammonia		TKN		Phos, Tot		NO3+NO2		DRO		Pesticide (8081/608)			SVOC (8270/625)			pH as Received		pH as Received											
		pH as Received	Final pH (if adjust.)	pH as Received	Final pH (if adjust.)	pH as Received	Final pH (if adjust.)	pH as Received	Final pH (if adjust.)	pH as Received	Final pH (if adjust.)	pH as Received	Final pH (if adjust.)	pH as Received	Final pH (if adjust.)	pH as Received	Final pH (if adjust.)	pH as Received	Final pH (if adjust.)	Res.Cl as Received	Res.Cl as Received	Res.Cl as Received	Other	Final pH (if adjust.)	Other	Final pH (if adjust.)											
		< 2	Other	> 12	Other	> 9	Other	< 2	Other	< 2	Other	< 2	Other	< 2	Other	< 2	Other	< 2	Other	Present	Absent	P/A	Present	Absent	P/A	Other	Other	Other									
08	D	✓																																			
09	B																				✓																
09	C			✓																																	
09	D	✓																																			
06	H																			✓	A		✓														
06	I																			✓	A		✓														

NaOH ID: _____

HNO3 ID: _____

CrVI preserved date/time: _____

Analyst Initials: _____

H2SO4 ID: _____

Na2S2O3 ID: 6K00045

Buffer Sol'n ID: _____

HCL ID: _____

Na2SO3 ID: _____

1N NaOH ID: _____

5N NaOH: _____

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gasworks
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:35:12AM

Sample Conditions Checklist

Samples Received at:	1.60°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	Yes
Are all volatile organic and TOX containers free of headspace?	Yes
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	Yes
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	No

As per John Russell: MW-26 is to be analyzed for DRO and Pet. ID. BAR 12/2/16 1018. MW-22 Pesticide container was received with only 800 ml. As per John Russell, composite soil samples in the lab. As per Julia Campus, groundwater samples to be analyzed for PCB in addition to Pesticides. MMB 12/2/16 10:36. Trip Blank received and added to WO, date and time (11/22/2016, 14:25) taken from sample label. MMB 12/2/16 15:49.



Air Water & Soil Laboratories, Inc.
 1941 Reymet Road
 Richmond, VA 23237
 (804)-358-8295 - Telephone
 (804)-358-8297 - Fax

Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: Fulton Gas Works
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Laboratory Sample ID: 16J0614-01 Client Sample ID: East Main Well 1

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	01	EPA200.8 R5.4	7.73		0.830	1.00	1	ug/L
Chromium	01RE1	EPA200.7 Rev 4.4	0.0047	J	0.0040	0.0100	1	mg/L
Nickel	01	EPA200.7 Rev 4.4	0.0069	J	0.0020	0.0100	1	mg/L
Zinc	01	EPA200.7 Rev 4.4	0.0111		0.0100	0.0100	1	mg/L
Pyrene	01	SW8270D	1.52	J	1.09	10.9	1	ug/L
Cyanide	01	SW9012B	0.01	CI	0.01	0.01	1	mg/L

Laboratory Sample ID: 16J0614-02 Client Sample ID: Trip Blanks

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Methylene chloride	02	SW8260B	1.22	J	1.00	4.00	1	ug/L

Note that this report is not the "Certificate of Analysis". This report only lists the target analytes that displayed concentrations that exceeded the detection limit specified for that analyte. For a complete listing of all analytes requested and the results of the analysis see the "Certificate of Analysis".



1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 16J0614

Client Name: Timmons Group
1001 Boulders Parkway, Suite 300
Richmond, VA 23225

Date Received: October 25, 2016 15:47
Date Issued: November 22, 2017 11:42
Project Number: 36156.015
Purchase Order:

Submitted To: Julia Campus

Client Site I.D.: Fulton Gas Works

Enclosed are the results of analyses for samples received by the laboratory on 10/25/2016 15:47. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Mandy Mishra
Lab Director/Quality Assurance Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Air Water & Soil Laboratories, Inc.



Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gas Works
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
East Main Well 1	16J0614-01	Ground Water	10/25/2016 12:00	10/25/2016 15:47
Trip Blanks	16J0614-02	Ground Water	10/21/2016 15:45	10/25/2016 15:47

This Certificate of Analysis is being reissued on November 22, 2017 to reflect report format changes per client request.

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Client Sample ID: East Main Well 1

Laboratory Sample ID: 16J0614-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 200 Series Methods												
Silver	01	7440-22-4	EPA200.7 Rev 4.4	10/26/2016 09:50	10/28/2016 13:28	BLOD		0.0020	0.0100	1	mg/L	CWO
Arsenic	01	7440-38-2	EPA200.8 R5.4	10/26/2016 09:50	10/27/2016 13:35	7.73		0.830	1.00	1	ug/L	BG
Beryllium	01	7440-41-7	EPA200.7 Rev 4.4	10/26/2016 09:50	10/28/2016 13:28	BLOD		0.0020	0.0040	1	mg/L	CWO
Cadmium	01	7440-43-9	EPA200.7 Rev 4.4	10/26/2016 09:50	10/28/2016 13:28	BLOD		0.0020	0.0040	1	mg/L	CWO
Chromium	01RE1	7440-47-3	EPA200.7 Rev 4.4	10/26/2016 09:50	10/29/2016 16:00	0.0047	J	0.0040	0.0100	1	mg/L	CWO
Copper	01	7440-50-8	EPA200.7 Rev 4.4	10/26/2016 09:50	10/28/2016 13:28	BLOD		0.0030	0.0100	1	mg/L	CWO
Mercury	01	7439-97-6	EPA245.1 R3.0	10/28/2016 08:30	10/31/2016 11:28	BLOD		0.0002	0.0002	1	mg/L	MWL
Nickel	01	7440-02-0	EPA200.7 Rev 4.4	10/26/2016 09:50	10/28/2016 13:28	0.0069	J	0.0020	0.0100	1	mg/L	CWO
Lead	01	7439-92-1	EPA200.7 Rev 4.4	10/26/2016 09:50	10/28/2016 13:28	BLOD		0.0060	0.0100	1	mg/L	CWO
Antimony	01	7440-36-0	EPA200.8 R5.4	10/26/2016 09:50	10/27/2016 13:35	BLOD		0.200	1.00	1	ug/L	BG
Selenium	01	7782-49-2	EPA200.8 R5.4	10/26/2016 09:50	10/27/2016 13:35	BLOD		1.00	1.00	1	ug/L	BG
Thallium	01	7440-28-0	EPA200.8 R5.4	10/26/2016 09:50	10/27/2016 13:35	BLOD		0.400	1.00	1	ug/L	BG
Zinc	01	7440-66-6	EPA200.7 Rev 4.4	10/26/2016 09:50	10/28/2016 13:28	0.0111		0.0100	0.0100	1	mg/L	CWO
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	01	630-20-6	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.10	0.40	1	ug/L	JDW
1,1,1-Trichloroethane	01	71-55-6	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.70	1.00	1	ug/L	JDW

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gas Works
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Client Sample ID: East Main Well 1

Laboratory Sample ID: 16J0614-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,2,2-Tetrachloroethane	01	79-34-5	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.40	0.40	1	ug/L	JDW
1,1,2-Trichloroethane	01	79-00-5	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.50	1.00	1	ug/L	JDW
1,1-Dichloroethane	01	75-34-3	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.40	1.00	1	ug/L	JDW
1,1-Dichloroethylene	01	75-35-4	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.30	1.00	1	ug/L	JDW
1,1-Dichloropropene	01	563-58-6	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.20	1.00	1	ug/L	JDW
1,2,3-Trichlorobenzene	01	87-61-6	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.30	1.00	1	ug/L	JDW
1,2,3-Trichloropropane	01	96-18-4	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.40	1.00	1	ug/L	JDW
1,2,4-Trichlorobenzene	01	120-82-1	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.30	1.00	1	ug/L	JDW
1,2,4-Trimethylbenzene	01	95-63-6	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.20	1.00	1	ug/L	JDW
1,2-Dibromo-3-chloropropane (DBCP)	01	96-12-8	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.80	4.00	1	ug/L	JDW
1,2-Dibromoethane (EDB)	01	106-93-4	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.40	1.00	1	ug/L	JDW
1,2-Dichlorobenzene	01	95-50-1	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.20	1.00	1	ug/L	JDW
1,2-Dichloroethane	01	107-06-2	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.90	1.00	1	ug/L	JDW
1,2-Dichloropropane	01	78-87-5	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.60	1.00	1	ug/L	JDW
1,3,5-Trimethylbenzene	01	108-67-8	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.20	1.00	1	ug/L	JDW
1,3-Dichlorobenzene	01	541-73-1	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.20	1.00	1	ug/L	JDW
1,3-Dichloropropane	01	142-28-9	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.20	1.00	1	ug/L	JDW
1,4-Dichlorobenzene	01	106-46-7	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.40	1.00	1	ug/L	JDW
2,2-Dichloropropane	01	594-20-7	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.30	2.00	1	ug/L	JDW
2-Butanone (MEK)	01	78-93-3	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		5.00	10.0	1	ug/L	JDW
2-Chlorotoluene	01	95-49-8	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.20	1.00	1	ug/L	JDW
2-Hexanone (MBK)	01	591-78-6	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		5.00	5.00	1	ug/L	JDW
4-Chlorotoluene	01	106-43-4	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.20	1.00	1	ug/L	JDW
4-Isopropyltoluene	01	99-87-6	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.20	1.00	1	ug/L	JDW

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gas Works
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Client Sample ID: East Main Well 1

Laboratory Sample ID: 16J0614-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Methyl-2-pentanone (MIBK)	01	108-10-1	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		5.00	5.00	1	ug/L	JDW
Acetone	01	67-64-1	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		7.00	10.0	1	ug/L	JDW
Benzene	01	71-43-2	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.30	1.00	1	ug/L	JDW
Bromobenzene	01	108-86-1	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.20	1.00	1	ug/L	JDW
Bromochloromethane	01	74-97-5	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.40	1.00	1	ug/L	JDW
Bromodichloromethane	01	75-27-4	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.30	0.50	1	ug/L	JDW
Bromoform	01	75-25-2	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.50	1.00	1	ug/L	JDW
Bromomethane	01	74-83-9	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.30	1.00	1	ug/L	JDW
Carbon disulfide	01	75-15-0	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		1.00	10.0	1	ug/L	JDW
Carbon tetrachloride	01	56-23-5	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.40	1.00	1	ug/L	JDW
Chlorobenzene	01	108-90-7	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.40	1.00	1	ug/L	JDW
Chloroethane	01	75-00-3	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.40	1.00	1	ug/L	JDW
Chloroform	01	67-66-3	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.40	0.50	1	ug/L	JDW
Chloromethane	01	74-87-3	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.50	1.00	1	ug/L	JDW
cis-1,2-Dichloroethylene	01	156-59-2	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.40	1.00	1	ug/L	JDW
cis-1,3-Dichloropropene	01	10061-01-5	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.20	1.00	1	ug/L	JDW
Dibromochloromethane	01	124-48-1	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.70	1.00	1	ug/L	JDW
Dibromomethane	01	74-95-3	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.30	1.00	1	ug/L	JDW
Dichlorodifluoromethane	01	75-71-8	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		1.00	1.00	1	ug/L	JDW
Di-isopropyl ether (DIPE)	01	108-20-3	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		5.00	5.00	1	ug/L	JDW
Ethylbenzene	01	100-41-4	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.20	1.00	1	ug/L	JDW
Hexachlorobutadiene	01	87-68-3	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		1.00	1.00	1	ug/L	JDW
Iodomethane	01	74-88-4	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		1.70	10.0	1	ug/L	JDW
Isopropylbenzene	01	98-82-8	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.20	1.00	1	ug/L	JDW

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Client Sample ID: East Main Well 1

Laboratory Sample ID: 16J0614-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
m+p-Xylenes	01	179601-23-1	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.50	2.00	1	ug/L	JDW
Methylene chloride	01	75-09-2	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		1.00	4.00	1	ug/L	JDW
Methyl-t-butyl ether (MTBE)	01	1634-04-4	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.40	1.00	1	ug/L	JDW
Naphthalene	01	91-20-3	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.50	1.00	1	ug/L	JDW
n-Butylbenzene	01	104-51-8	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.10	1.00	1	ug/L	JDW
n-Propylbenzene	01	103-65-1	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.10	1.00	1	ug/L	JDW
o-Xylene	01	95-47-6	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.50	1.00	1	ug/L	JDW
sec-Butylbenzene	01	135-98-8	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.10	1.00	1	ug/L	JDW
Styrene	01	100-42-5	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.20	1.00	1	ug/L	JDW
tert-Butylbenzene	01	98-06-6	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.10	1.00	1	ug/L	JDW
Tetrachloroethylene (PCE)	01	127-18-4	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.40	1.00	1	ug/L	JDW
Toluene	01	108-88-3	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.40	1.00	1	ug/L	JDW
trans-1,2-Dichloroethylene	01	156-60-5	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.40	1.00	1	ug/L	JDW
trans-1,3-Dichloropropene	01	10061-02-6	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.50	1.00	1	ug/L	JDW
Trichloroethylene	01	79-01-6	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.30	1.00	1	ug/L	JDW
Trichlorofluoromethane	01	75-69-4	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.20	1.00	1	ug/L	JDW
Vinyl acetate	01	108-05-4	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		2.20	10.0	1	ug/L	JDW
Vinyl chloride	01	75-01-4	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		0.30	0.50	1	ug/L	JDW
Xylenes, Total	01	1330-20-7	SW8260B	10/26/2016 11:30	10/26/2016 11:30	BLOD		1.00	3.00	1	ug/L	JDW
Surr: 1,2-Dichloroethane-d4 (Surr)	01	103 %	70-120	10/26/2016 11:30	10/26/2016 11:30							
Surr: 4-Bromofluorobenzene (Surr)	01	99.9 %	75-120	10/26/2016 11:30	10/26/2016 11:30							
Surr: Dibromofluoromethane (Surr)	01	102 %	80-119	10/26/2016 11:30	10/26/2016 11:30							
Surr: Toluene-d8 (Surr)	01	102 %	85-120	10/26/2016 11:30	10/26/2016 11:30							

Certificate of Analysis

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Client Sample ID: East Main Well 1

Laboratory Sample ID: 16J0614-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
1,2,4,5-Tetrachlorobenzene	01	95-94-3	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	10.9	1	ug/L	EWS
1,2,4-Trichlorobenzene	01	120-82-1	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	10.9	1	ug/L	EWS
1,2-Dichlorobenzene	01	95-50-1	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
1,2-Diphenylhydrazine	01	122-66-7	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		10.9	10.9	1	ug/L	EWS
1,3-Dichlorobenzene	01	541-73-1	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
1,3-Dinitrobenzene	01	99-65-0	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.72	2.72	1	ug/L	EWS
1,4-Dichlorobenzene	01	106-46-7	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
1-Naphthylamine	01	134-32-7	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
2,3,4,6-Tetrachlorophenol	01	58-90-2	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
2,4,5-Trichlorophenol	01	95-95-4	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
2,4,6-Trichlorophenol	01	88-06-2	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
2,4-Dichlorophenol	01	120-83-2	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
2,4-Dimethylphenol	01	105-67-9	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		0.54	0.54	1	ug/L	EWS
2,4-Dinitrophenol	01	51-28-5	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		0.54	54.3	1	ug/L	EWS
2,4-Dinitrotoluene	01	121-14-2	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
2,6-Dichlorophenol	01	87-65-0	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
2,6-Dinitrotoluene	01	606-20-2	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
2-Chloronaphthalene	01	91-58-7	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
2-Chlorophenol	01	95-57-8	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
2-Methylnaphthalene	01	91-57-6	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	10.9	1	ug/L	EWS
2-Naphthylamine	01	91-59-8	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	10.9	1	ug/L	EWS
2-Nitroaniline	01	88-74-4	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	21.7	1	ug/L	EWS
2-Nitrophenol	01	88-75-5	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
3,3'-Dichlorobenzidine	01	91-94-1	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		4.35	10.9	1	ug/L	EWS

Certificate of Analysis

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Client Sample ID: East Main Well 1

Laboratory Sample ID: 16J0614-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatle Organic Compounds by GCMS												
3-Methylcholanthrene	01	56-49-5	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
3-Nitroaniline	01	99-09-2	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	21.7	1	ug/L	EWS
4,6-Dinitro-2-methylphenol	01	534-52-1	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	54.3	1	ug/L	EWS
4-Aminobiphenyl	01	92-67-1	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	10.9	1	ug/L	EWS
4-Bromophenyl phenyl ether	01	101-55-3	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
4-Chloroaniline	01	106-47-8	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	10.9	1	ug/L	EWS
4-Chlorophenyl phenyl ether	01	7005-72-3	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
4-Nitroaniline	01	100-01-6	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	21.7	1	ug/L	EWS
4-Nitrophenol	01	100-02-7	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	54.3	1	ug/L	EWS
7,12-Dimethylbenz (a) anthracene	01	57-97-6	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	10.9	1	ug/L	EWS
Acenaphthene	01	83-32-9	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Acenaphthylene	01	208-96-8	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Acetophenone	01	98-86-2	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	21.7	1	ug/L	EWS
Aniline	01	62-53-3	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	54.3	1	ug/L	EWS
Anthracene	01	120-12-7	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Benzidine	01	92-87-5	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		54.3	54.3	1	ug/L	EWS
Benzo (a) anthracene	01	56-55-3	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		0.05	0.05	1	ug/L	EWS
Benzo (a) pyrene	01	50-32-8	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Benzo (b) fluoranthene	01	205-99-2	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Benzo (g,h,i) perylene	01	191-24-2	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Benzo (k) fluoranthene	01	207-08-9	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Benzoic acid	01	65-85-0	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	54.3	1	ug/L	EWS
Benzyl alcohol	01	100-51-6	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	21.7	1	ug/L	EWS
bis (2-Chloroethoxy) methane	01	111-91-1	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS

Certificate of Analysis

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Client Sample ID: East Main Well 1

Laboratory Sample ID: 16J0614-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
bis (2-Chloroethyl) ether	01	111-44-4	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
2,2'-Oxybis (1-chloropropane)	01	108-60-1	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
bis (2-Ethylhexyl) phthalate	01	117-81-7	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Butyl benzyl phthalate	01	85-68-7	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Chrysene	01	218-01-9	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Dibenz (a,h) anthracene	01	53-70-3	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Dibenz (a,j) acridine	01	224-42-0	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		3.26	10.9	1	ug/L	EWS
Dibenzofuran	01	132-64-9	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	5.43	1	ug/L	EWS
Diethyl phthalate	01	84-66-2	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Dimethyl phthalate	01	131-11-3	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Di-n-butyl phthalate	01	84-74-2	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	10.9	1	ug/L	EWS
Di-n-octyl phthalate	01	117-84-0	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Diphenylamine	01	122-39-4	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	10.9	1	ug/L	EWS
Ethyl methanesulfonate	01	62-50-0	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	21.7	1	ug/L	EWS
Fluoranthene	01	206-44-0	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Fluorene	01	86-73-7	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Hexachlorobenzene	01	118-74-1	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	1.09	1	ug/L	EWS
Hexachlorobutadiene	01	87-68-3	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Hexachlorocyclopentadiene	01	77-47-4	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Hexachloroethane	01	67-72-1	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Indeno (1,2,3-cd) pyrene	01	193-39-5	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Isophorone	01	78-59-1	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
m+p-Cresols	01	84989-04-8	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Methyl methanesulfonate	01	66-27-3	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS

Certificate of Analysis

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Client Sample ID: East Main Well 1

Laboratory Sample ID: 16J0614-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Naphthalene	01	91-20-3	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	5.43	1	ug/L	EWS
Nitrobenzene	01	98-95-3	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
n-Nitrosodimethylamine	01	62-75-9	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	10.9	1	ug/L	EWS
n-Nitrosodi-n-butylamine	01	924-16-3	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	10.9	1	ug/L	EWS
n-Nitrosodi-n-propylamine	01	621-64-7	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	10.9	1	ug/L	EWS
n-Nitrosodiphenylamine	01	86-30-6	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
n-Nitrosopiperidine	01	100-75-4	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	10.9	1	ug/L	EWS
o+m+p-Cresols	01	1319-77-3	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		3.26	10.9	1	ug/L	EWS
o-Cresol	01	95-48-7	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
p-(Dimethylamino) azobenzene	01	60-11-7	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD	C	1.09	2.72	1	ug/L	EWS
p-Chloro-m-cresol	01	59-50-7	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Pentachloronitrobenzene (quintozene)	01	82-68-8	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Pentachlorophenol	01	87-86-5	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	21.7	1	ug/L	EWS
Phenacetin	01	62-44-2	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Phenanthrene	01	85-01-8	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Phenol	01	108-95-2	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
Pronamide	01	23950-58-5	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		2.17	10.9	1	ug/L	EWS
Pyrene	01	129-00-0	SW8270D	10/28/2016 09:05	11/01/2016 17:01	1.52	J	1.09	10.9	1	ug/L	EWS
Pyridine	01	110-86-1	SW8270D	10/28/2016 09:05	11/01/2016 17:01	BLOD		1.09	10.9	1	ug/L	EWS
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	01	61.5 %	40-125	10/28/2016 09:05	11/01/2016 17:01							
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	01	60.4 %	23-87	10/28/2016 09:05	11/01/2016 17:01							
<i>Surr: 2-Fluorophenol (Surr)</i>	01	37.6 %	14-52	10/28/2016 09:05	11/01/2016 17:01							
<i>Surr: Nitrobenzene-d5 (Surr)</i>	01	59.3 %	40-110	10/28/2016 09:05	11/01/2016 17:01							
<i>Surr: Phenol-d5 (Surr)</i>	01	24.8 %	5-33	10/28/2016 09:05	11/01/2016 17:01							
<i>Surr: p-Terphenyl-d14 (Surr)</i>	01	73.8 %	27-133	10/28/2016 09:05	11/01/2016 17:01							

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gas Works
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Client Sample ID: East Main Well 1

Laboratory Sample ID: 16J0614-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
PCB as Aroclor 1016	01	12674-11-2	SW8082A	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.028	0.217	1	ug/L	SKS
PCB as Aroclor 1221	01	11104-28-2	SW8082A	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.217	0.217	1	ug/L	SKS
PCB as Aroclor 1232	01	11141-16-5	SW8082A	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.016	0.217	1	ug/L	SKS
PCB as Aroclor 1242	01	53469-21-9	SW8082A	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.045	0.217	1	ug/L	SKS
PCB as Aroclor 1248	01	12672-29-6	SW8082A	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.052	0.217	1	ug/L	SKS
PCB as Aroclor 1254	01	11097-69-1	SW8082A	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.038	0.217	1	ug/L	SKS
PCB as Aroclor 1260	01	11096-82-5	SW8082A	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.037	0.217	1	ug/L	SKS
<i>Surr: DCB</i>	<i>01</i>	<i>70.0 %</i>	<i>30-105</i>	<i>10/27/2016 08:45</i>	<i>10/27/2016 23:12</i>							
<i>Surr: TCMX</i>	<i>01</i>	<i>65.0 %</i>	<i>30-105</i>	<i>10/27/2016 08:45</i>	<i>10/27/2016 23:12</i>							
4,4'-DDD	01	72-54-8	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.005	0.054	1	ug/L	SKS
4,4'-DDE	01	72-55-9	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.005	0.054	1	ug/L	SKS
4,4'-DDT	01	50-29-3	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.005	0.054	1	ug/L	SKS
Aldrin	01	309-00-2	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.005	0.054	1	ug/L	SKS
alpha-BHC	01	319-84-6	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.005	0.054	1	ug/L	SKS
beta-BHC	01	319-85-7	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.005	0.054	1	ug/L	SKS
Chlordane	01	57-74-9	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.217	0.217	1	ug/L	SKS
delta-BHC	01	319-86-8	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.002	0.054	1	ug/L	SKS
Dieldrin	01	60-57-1	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.003	0.054	1	ug/L	SKS
Endosulfan I	01	959-98-8	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.002	0.054	1	ug/L	SKS
Endosulfan II	01	33213-65-9	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.002	0.054	1	ug/L	SKS
Endosulfan sulfate	01	1031-07-8	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.002	0.054	1	ug/L	SKS
Endrin	01	72-20-8	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.002	0.054	1	ug/L	SKS
Endrin aldehyde	01	7421-93-4	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.002	0.054	1	ug/L	SKS
gamma-BHC (Lindane)	01	58-89-9	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.003	0.054	1	ug/L	SKS

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Date Issued: 11/22/2017 11:42:48AM

Client Sample ID: East Main Well 1

Laboratory Sample ID: 16J0614-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Pesticides and PCBs by GC/ECD												
Heptachlor	01	76-44-8	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.003	0.054	1	ug/L	SKS
Heptachlor epoxide	01	1024-57-3	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.002	0.054	1	ug/L	SKS
Methoxychlor	01	72-43-5	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.004	0.054	1	ug/L	SKS
Toxaphene	01	8001-35-2	SW8081B	10/27/2016 08:45	10/27/2016 23:12	BLOD		0.217	1.09	1	ug/L	SKS
Surr: TCMX	01	95.0 %	18-112	10/27/2016 08:45	10/27/2016 23:12							
Surr: DCB	01	95.0 %	27-131	10/27/2016 08:45	10/27/2016 23:12							

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Client Sample ID: East Main Well 1

Laboratory Sample ID: 16J0614-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Organochlorine Herbicides by GC/ECD												
2,4,5-T	01	93-76-5	SW8151A	10/26/2016 14:40	10/28/2016 17:23	BLOD		0.100	0.500	1	ug/L	CVH
2,4,5-TP (Silvex)	01	93-72-1	SW8151A	10/26/2016 14:40	10/28/2016 17:23	BLOD		0.100	0.500	1	ug/L	CVH
2,4-D	01	94-75-7	SW8151A	10/26/2016 14:40	10/28/2016 17:23	BLOD		0.100	0.500	1	ug/L	CVH
Dinoseb	01	88-85-7	SW8151A	10/26/2016 14:40	10/28/2016 17:23	BLOD		0.010	0.500	1	ug/L	CVH
Pentachlorophenol	01	87-86-5	SW8151A	10/26/2016 14:40	10/28/2016 17:23	BLOD		0.100	0.500	1	ug/L	CVH
<i>Surr: DCAA (Surr)</i>	<i>01</i>	<i>100 %</i>	<i>60-112</i>	<i>10/26/2016 14:40</i>	<i>10/28/2016 17:23</i>							

Certificate of Analysis

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Client Sample ID: East Main Well 1

Laboratory Sample ID: 16J0614-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Wet Chemistry Analysis												
Cyanide	01	57-12-5	SW9012B	10/26/2016 16:12	10/26/2016 16:12	0.01	CI	0.01	0.01	1	mg/L	BBP
Chromium, Hexavalent	01	18540-29-9	SW7196A	10/26/2016 11:00	10/26/2016 11:00	BLOD		0.005	0.005	1	mg/L	CMB

Certificate of Analysis

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 Client Site I.D.: Fulton Gas Works
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Client Sample ID: Trip Blanks

Laboratory Sample ID: 16J0614-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	02	630-20-6	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.10	0.40	1	ug/L	JDW
1,1,1-Trichloroethane	02	71-55-6	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.70	1.00	1	ug/L	JDW
1,1,2,2-Tetrachloroethane	02	79-34-5	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.40	0.40	1	ug/L	JDW
1,1,2-Trichloroethane	02	79-00-5	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.50	1.00	1	ug/L	JDW
1,1-Dichloroethane	02	75-34-3	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.40	1.00	1	ug/L	JDW
1,1-Dichloroethylene	02	75-35-4	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.30	1.00	1	ug/L	JDW
1,1-Dichloropropene	02	563-58-6	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.20	1.00	1	ug/L	JDW
1,2,3-Trichlorobenzene	02	87-61-6	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.30	1.00	1	ug/L	JDW
1,2,3-Trichloropropane	02	96-18-4	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.40	1.00	1	ug/L	JDW
1,2,4-Trichlorobenzene	02	120-82-1	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.30	1.00	1	ug/L	JDW
1,2,4-Trimethylbenzene	02	95-63-6	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.20	1.00	1	ug/L	JDW
1,2-Dibromo-3-chloropropane (DBCP)	02	96-12-8	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.80	4.00	1	ug/L	JDW
1,2-Dibromoethane (EDB)	02	106-93-4	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.40	1.00	1	ug/L	JDW
1,2-Dichlorobenzene	02	95-50-1	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.20	1.00	1	ug/L	JDW
1,2-Dichloroethane	02	107-06-2	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.90	1.00	1	ug/L	JDW
1,2-Dichloropropane	02	78-87-5	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.60	1.00	1	ug/L	JDW
1,3,5-Trimethylbenzene	02	108-67-8	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.20	1.00	1	ug/L	JDW
1,3-Dichlorobenzene	02	541-73-1	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.20	1.00	1	ug/L	JDW
1,3-Dichloropropane	02	142-28-9	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.20	1.00	1	ug/L	JDW
1,4-Dichlorobenzene	02	106-46-7	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.40	1.00	1	ug/L	JDW
2,2-Dichloropropane	02	594-20-7	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.30	2.00	1	ug/L	JDW
2-Butanone (MEK)	02	78-93-3	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		5.00	10.0	1	ug/L	JDW
2-Chlorotoluene	02	95-49-8	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.20	1.00	1	ug/L	JDW
2-Hexanone (MBK)	02	591-78-6	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		5.00	5.00	1	ug/L	JDW

Certificate of Analysis

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Date Issued: 11/22/2017 11:42:48AM

Client Sample ID: Trip Blanks

Laboratory Sample ID: 16J0614-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Chlorotoluene	02	106-43-4	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.20	1.00	1	ug/L	JDW
4-Isopropyltoluene	02	99-87-6	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.20	1.00	1	ug/L	JDW
4-Methyl-2-pentanone (MIBK)	02	108-10-1	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		5.00	5.00	1	ug/L	JDW
Acetone	02	67-64-1	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		7.00	10.0	1	ug/L	JDW
Benzene	02	71-43-2	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.30	1.00	1	ug/L	JDW
Bromobenzene	02	108-86-1	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.20	1.00	1	ug/L	JDW
Bromochloromethane	02	74-97-5	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.40	1.00	1	ug/L	JDW
Bromodichloromethane	02	75-27-4	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.30	0.50	1	ug/L	JDW
Bromoform	02	75-25-2	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.50	1.00	1	ug/L	JDW
Bromomethane	02	74-83-9	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.30	1.00	1	ug/L	JDW
Carbon disulfide	02	75-15-0	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		1.00	10.0	1	ug/L	JDW
Carbon tetrachloride	02	56-23-5	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.40	1.00	1	ug/L	JDW
Chlorobenzene	02	108-90-7	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.40	1.00	1	ug/L	JDW
Chloroethane	02	75-00-3	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.40	1.00	1	ug/L	JDW
Chloroform	02	67-66-3	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.40	0.50	1	ug/L	JDW
Chloromethane	02	74-87-3	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.50	1.00	1	ug/L	JDW
cis-1,2-Dichloroethylene	02	156-59-2	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.40	1.00	1	ug/L	JDW
cis-1,3-Dichloropropene	02	10061-01-5	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.20	1.00	1	ug/L	JDW
Dibromochloromethane	02	124-48-1	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.70	1.00	1	ug/L	JDW
Dibromomethane	02	74-95-3	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.30	1.00	1	ug/L	JDW
Dichlorodifluoromethane	02	75-71-8	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		1.00	1.00	1	ug/L	JDW
Di-isopropyl ether (DIPE)	02	108-20-3	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		5.00	5.00	1	ug/L	JDW
Ethylbenzene	02	100-41-4	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.20	1.00	1	ug/L	JDW
Hexachlorobutadiene	02	87-68-3	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		1.00	1.00	1	ug/L	JDW

Certificate of Analysis

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Date Issued: 11/22/2017 11:42:48AM

Client Sample ID: Trip Blanks

Laboratory Sample ID: 16J0614-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	02	74-88-4	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		1.70	10.0	1	ug/L	JDW
Isopropylbenzene	02	98-82-8	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.20	1.00	1	ug/L	JDW
m+p-Xylenes	02	179601-23-1	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.50	2.00	1	ug/L	JDW
Methylene chloride	02	75-09-2	SW8260B	10/26/2016 11:07	10/26/2016 11:07	1.22	J	1.00	4.00	1	ug/L	JDW
Methyl-t-butyl ether (MTBE)	02	1634-04-4	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.40	1.00	1	ug/L	JDW
Naphthalene	02	91-20-3	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.50	1.00	1	ug/L	JDW
n-Butylbenzene	02	104-51-8	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.10	1.00	1	ug/L	JDW
n-Propylbenzene	02	103-65-1	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.10	1.00	1	ug/L	JDW
o-Xylene	02	95-47-6	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.50	1.00	1	ug/L	JDW
sec-Butylbenzene	02	135-98-8	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.10	1.00	1	ug/L	JDW
Styrene	02	100-42-5	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.20	1.00	1	ug/L	JDW
tert-Butylbenzene	02	98-06-6	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.10	1.00	1	ug/L	JDW
Tetrachloroethylene (PCE)	02	127-18-4	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.40	1.00	1	ug/L	JDW
Toluene	02	108-88-3	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.40	1.00	1	ug/L	JDW
trans-1,2-Dichloroethylene	02	156-60-5	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.40	1.00	1	ug/L	JDW
trans-1,3-Dichloropropene	02	10061-02-6	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.50	1.00	1	ug/L	JDW
Trichloroethylene	02	79-01-6	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.30	1.00	1	ug/L	JDW
Trichlorofluoromethane	02	75-69-4	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.20	1.00	1	ug/L	JDW
Vinyl acetate	02	108-05-4	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		2.20	10.0	1	ug/L	JDW
Vinyl chloride	02	75-01-4	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		0.30	0.50	1	ug/L	JDW
Xylenes, Total	02	1330-20-7	SW8260B	10/26/2016 11:07	10/26/2016 11:07	BLOD		1.00	3.00	1	ug/L	JDW
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	02	104 %	70-120	10/26/2016 11:07	10/26/2016 11:07							
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	02	99.9 %	75-120	10/26/2016 11:07	10/26/2016 11:07							
<i>Surr: Dibromofluoromethane (Surr)</i>	02	102 %	80-119	10/26/2016 11:07	10/26/2016 11:07							



Air Water & Soil Laboratories, Inc.
 1941 Reymet Road
 Richmond, Virginia 23237
 (804)-358-8295 - Telephone
 (804)-358-8297 - Fax

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gas Works
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Client Sample ID: Trip Blanks

Laboratory Sample ID: 16J0614-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
<i>Surr: Toluene-d8 (Surr)</i>	02	101 %	85-120	10/26/2016 11:07	10/26/2016 11:07							

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Metals (Total) by EPA 200 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0739 - EPA200.2/R2.8

Blank (BZJ0739-BLK1)

Prepared: 10/26/2016 Analyzed: 10/28/2016

Beryllium	BLOD	0.0040	mg/L							
Cadmium	BLOD	0.0040	mg/L							
Chromium	BLOD	0.0100	mg/L							
Copper	BLOD	0.0100	mg/L							
Lead	BLOD	0.0100	mg/L							
Nickel	BLOD	0.0100	mg/L							
Silver	BLOD	0.0100	mg/L							
Zinc	BLOD	0.0100	mg/L							

LCS (BZJ0739-BS1)

Prepared: 10/26/2016 Analyzed: 10/28/2016

Beryllium	0.545	0.0040	mg/L	0.500		109	80-120			
Cadmium	0.552	0.0040	mg/L	0.500		110	80-120			
Chromium	0.540	0.0100	mg/L	0.500		108	80-120			
Copper	0.550	0.0100	mg/L	0.500		110	80-120			
Lead	0.547	0.0100	mg/L	0.500		109	80-120			
Nickel	0.546	0.0100	mg/L	0.500		109	80-120			
Silver	0.112	0.0100	mg/L	0.100		112	80-120			E
Zinc	0.533	0.0100	mg/L	0.500		107	80-120			

LCS Dup (BZJ0739-BSD1)

Prepared: 10/26/2016 Analyzed: 10/28/2016

Beryllium	0.544	0.0040	mg/L	0.500		109	80-120	0.153	20	
Cadmium	0.549	0.0040	mg/L	0.500		110	80-120	0.374	20	
Chromium	0.545	0.0100	mg/L	0.500		109	80-120	0.824	20	
Copper	0.549	0.0100	mg/L	0.500		110	80-120	0.159	20	
Lead	0.554	0.0100	mg/L	0.500		111	80-120	1.31	20	
Nickel	0.547	0.0100	mg/L	0.500		109	80-120	0.285	20	

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Metals (Total) by EPA 200 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZJ0739 - EPA200.2/R2.8										
LCS Dup (BZJ0739-BSD1)										
				Prepared: 10/26/2016 Analyzed: 10/28/2016						
Silver	0.113	0.0100	mg/L	0.100		113	80-120	1.02	20	E
Zinc	0.540	0.0100	mg/L	0.500		108	80-120	1.34	20	
Matrix Spike (BZJ0739-MS1)										
		Source: 16J0611-06		Prepared: 10/26/2016 Analyzed: 10/28/2016						
Beryllium	0.552	0.0040	mg/L	0.500	BLOD	110	75-125			
Cadmium	0.555	0.0040	mg/L	0.500	BLOD	111	75-125			
Chromium	0.552	0.0100	mg/L	0.500	0.0061	109	75-125			
Copper	0.573	0.0100	mg/L	0.500	0.0035	114	75-125			
Lead	0.553	0.0100	mg/L	0.500	BLOD	111	75-125			
Nickel	0.559	0.0100	mg/L	0.500	0.0093	110	75-125			
Silver	0.112	0.0100	mg/L	0.100	BLOD	112	75-125			E
Zinc	0.542	0.0100	mg/L	0.500	BLOD	108	75-125			
Matrix Spike (BZJ0739-MS2)										
		Source: 16J0611-12		Prepared: 10/26/2016 Analyzed: 10/28/2016						
Beryllium	0.571	0.0040	mg/L	0.500	BLOD	114	75-125			
Cadmium	0.574	0.0040	mg/L	0.500	BLOD	115	75-125			
Chromium	0.560	0.0100	mg/L	0.500	BLOD	112	75-125			
Copper	0.575	0.0100	mg/L	0.500	BLOD	115	75-125			
Lead	0.567	0.0100	mg/L	0.500	BLOD	113	75-125			
Nickel	0.567	0.0100	mg/L	0.500	BLOD	113	75-125			
Silver	0.118	0.0100	mg/L	0.100	BLOD	118	75-125			E
Zinc	0.559	0.0100	mg/L	0.500	BLOD	112	75-125			
Matrix Spike Dup (BZJ0739-MSD1)										
		Source: 16J0611-06		Prepared: 10/26/2016 Analyzed: 10/28/2016						
Beryllium	0.561	0.0040	mg/L	0.500	BLOD	112	75-125	1.74	20	
Cadmium	0.562	0.0040	mg/L	0.500	BLOD	112	75-125	1.19	20	
Chromium	0.562	0.0100	mg/L	0.500	0.0061	111	75-125	1.72	20	

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Metals (Total) by EPA 200 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0739 - EPA200.2/R2.8

Matrix Spike Dup (BZJ0739-MSD1)		Source: 16J0611-06			Prepared: 10/26/2016 Analyzed: 10/28/2016					
Copper	0.582	0.0100	mg/L	0.500	0.0035	116	75-125	1.67	20	
Lead	0.561	0.0100	mg/L	0.500	BLOD	112	75-125	1.43	20	
Nickel	0.565	0.0100	mg/L	0.500	0.0093	111	75-125	1.00	20	
Silver	0.113	0.0100	mg/L	0.100	BLOD	113	75-125	1.37	20	E
Zinc	0.549	0.0100	mg/L	0.500	BLOD	110	75-125	1.33	20	

Matrix Spike Dup (BZJ0739-MSD2)		Source: 16J0611-12			Prepared: 10/26/2016 Analyzed: 10/28/2016					
Beryllium	0.552	0.0040	mg/L	0.500	BLOD	110	75-125	3.35	20	
Cadmium	0.554	0.0040	mg/L	0.500	BLOD	111	75-125	3.42	20	
Chromium	0.548	0.0100	mg/L	0.500	BLOD	110	75-125	2.21	20	
Copper	0.554	0.0100	mg/L	0.500	BLOD	111	75-125	3.68	20	
Lead	0.556	0.0100	mg/L	0.500	BLOD	111	75-125	1.91	20	
Nickel	0.552	0.0100	mg/L	0.500	BLOD	110	75-125	2.66	20	
Silver	0.113	0.0100	mg/L	0.100	BLOD	113	75-125	3.78	20	E
Zinc	0.547	0.0100	mg/L	0.500	BLOD	109	75-125	2.09	20	

Batch BZJ0741 - EPA200.8 R5.4

Blank (BZJ0741-BLK1)		Prepared: 10/26/2016 Analyzed: 10/27/2016								
Antimony	BLOD	1.00	ug/L							
Arsenic	BLOD	1.00	ug/L							
Selenium	BLOD	1.00	ug/L							
Thallium	BLOD	1.00	ug/L							

LCS (BZJ0741-BS1)		Prepared: 10/26/2016 Analyzed: 10/27/2016								
Antimony	49.1	1.00	ug/L	50.0		98.3	85-115			
Arsenic	50.8	1.00	ug/L	50.0		102	85-115			

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gas Works
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Metals (Total) by EPA 200 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZJ0741 - EPA200.8 R5.4										
LCS (BZJ0741-BS1)										
				Prepared: 10/26/2016 Analyzed: 10/27/2016						
Selenium	52.6	1.00	ug/L	50.0		105	85-115			
Thallium	48.6	1.00	ug/L	50.0		97.1	85-115			
LCS Dup (BZJ0741-BSD1)										
				Prepared: 10/26/2016 Analyzed: 10/27/2016						
Antimony	48.7	1.00	ug/L	50.0		97.4	85-115	0.944	20	
Arsenic	49.7	1.00	ug/L	50.0		99.4	85-115	2.22	20	
Selenium	50.2	1.00	ug/L	50.0		100	85-115	4.68	20	
Thallium	48.2	1.00	ug/L	50.0		96.4	85-115	0.744	20	
Matrix Spike (BZJ0741-MS1)										
		Source: 16J0611-06		Prepared: 10/26/2016 Analyzed: 10/27/2016						
Antimony	51.1	1.00	ug/L	50.0	BLOD	102	70-130			
Arsenic	54.5	1.00	ug/L	50.0	BLOD	109	70-130			
Selenium	56.6	1.00	ug/L	50.0	BLOD	113	70-130			
Thallium	45.9	1.00	ug/L	50.0	BLOD	91.7	70-130			
Matrix Spike (BZJ0741-MS2)										
		Source: 16J0611-12		Prepared: 10/26/2016 Analyzed: 10/27/2016						
Antimony	48.5	1.00	ug/L	50.0	BLOD	97.1	70-130			
Arsenic	50.0	1.00	ug/L	50.0	BLOD	100	70-130			
Selenium	52.9	1.00	ug/L	50.0	BLOD	106	70-130			
Thallium	46.6	1.00	ug/L	50.0	BLOD	93.3	70-130			
Matrix Spike Dup (BZJ0741-MSD1)										
		Source: 16J0611-06		Prepared: 10/26/2016 Analyzed: 10/27/2016						
Antimony	50.2	1.00	ug/L	50.0	BLOD	100	70-130	1.77	20	
Arsenic	54.2	1.00	ug/L	50.0	BLOD	108	70-130	0.659	20	
Selenium	57.2	1.00	ug/L	50.0	BLOD	114	70-130	1.10	20	
Thallium	46.4	1.00	ug/L	50.0	BLOD	92.9	70-130	1.27	20	
Matrix Spike Dup (BZJ0741-MSD2)										
		Source: 16J0611-12		Prepared: 10/26/2016 Analyzed: 10/27/2016						

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Metals (Total) by EPA 200 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZJ0741 - EPA200.8 R5.4										
Matrix Spike Dup (BZJ0741-MSD2) Source: 16J0611-12 Prepared: 10/26/2016 Analyzed: 10/27/2016										
Antimony	48.4	1.00	ug/L	50.0	BLOD	96.7	70-130	0.331	20	
Arsenic	51.5	1.00	ug/L	50.0	BLOD	103	70-130	2.87	20	
Selenium	52.6	1.00	ug/L	50.0	BLOD	105	70-130	0.634	20	
Thallium	48.2	1.00	ug/L	50.0	BLOD	96.4	70-130	3.29	20	
Batch BZJ0839 - SW7470A										
Blank (BZJ0839-BLK1) Prepared: 10/28/2016 Analyzed: 10/31/2016										
Mercury	BLOD	0.0002	mg/L							
LCS (BZJ0839-BS1) Prepared: 10/28/2016 Analyzed: 10/31/2016										
Mercury	0.0025	0.0002	mg/L	0.00250		99.1	85-115			
LCS Dup (BZJ0839-BSD1) Prepared: 10/28/2016 Analyzed: 10/31/2016										
Mercury	0.0026	0.0002	mg/L	0.00250		102	85-115	2.90	20	
Matrix Spike (BZJ0839-MS1) Source: 16J0540-01 Prepared: 10/28/2016 Analyzed: 10/31/2016										
Mercury	0.0024	0.0002	mg/L	0.00250	BLOD	95.1	70-130			
Matrix Spike (BZJ0839-MS2) Source: 16J0614-01 Prepared: 10/28/2016 Analyzed: 10/31/2016										
Mercury	0.0023	0.0002	mg/L	0.00250	BLOD	90.2	70-130			
Matrix Spike Dup (BZJ0839-MSD1) Source: 16J0540-01 Prepared: 10/28/2016 Analyzed: 10/31/2016										
Mercury	0.0027	0.0002	mg/L	0.00250	BLOD	108	70-130	12.3	20	
Matrix Spike Dup (BZJ0839-MSD2) Source: 16J0614-01 Prepared: 10/28/2016 Analyzed: 10/31/2016										
Mercury	0.0024	0.0002	mg/L	0.00250	BLOD	97.8	70-130	8.07	20	

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0788 - SW5030B

Blank (BZJ0788-BLK1)

Prepared & Analyzed: 10/26/2016

1,1,1,2-Tetrachloroethane	BLOD	0.40	ug/L
1,1,1-Trichloroethane	BLOD	1.00	ug/L
1,1,2,2-Tetrachloroethane	BLOD	0.40	ug/L
1,1,2-Trichloroethane	BLOD	1.00	ug/L
1,1-Dichloroethane	BLOD	1.00	ug/L
1,1-Dichloroethylene	BLOD	1.00	ug/L
1,1-Dichloropropene	BLOD	1.00	ug/L
1,2,3-Trichlorobenzene	BLOD	1.00	ug/L
1,2,3-Trichloropropane	BLOD	1.00	ug/L
1,2,4-Trichlorobenzene	BLOD	1.00	ug/L
1,2,4-Trimethylbenzene	BLOD	1.00	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	BLOD	4.00	ug/L
1,2-Dibromoethane (EDB)	BLOD	1.00	ug/L
1,2-Dichlorobenzene	BLOD	1.00	ug/L
1,2-Dichloroethane	BLOD	1.00	ug/L
1,2-Dichloropropane	BLOD	1.00	ug/L
1,3,5-Trimethylbenzene	BLOD	1.00	ug/L
1,3-Dichlorobenzene	BLOD	1.00	ug/L
1,3-Dichloropropane	BLOD	1.00	ug/L
1,4-Dichlorobenzene	BLOD	1.00	ug/L
2,2-Dichloropropane	BLOD	2.00	ug/L
2-Butanone (MEK)	BLOD	10.0	ug/L
2-Chlorotoluene	BLOD	1.00	ug/L
2-Hexanone (MBK)	BLOD	5.00	ug/L
4-Chlorotoluene	BLOD	1.00	ug/L

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0788 - SW5030B

Blank (BZJ0788-BLK1)

Prepared & Analyzed: 10/26/2016

4-Isopropyltoluene	BLOD	1.00	ug/L
4-Methyl-2-pentanone (MIBK)	BLOD	5.00	ug/L
Acetone	BLOD	10.0	ug/L
Benzene	BLOD	1.00	ug/L
Bromobenzene	BLOD	1.00	ug/L
Bromochloromethane	BLOD	1.00	ug/L
Bromodichloromethane	BLOD	0.50	ug/L
Bromoform	BLOD	1.00	ug/L
Bromomethane	BLOD	1.00	ug/L
Carbon disulfide	BLOD	10.0	ug/L
Carbon tetrachloride	BLOD	1.00	ug/L
Chlorobenzene	BLOD	1.00	ug/L
Chloroethane	BLOD	1.00	ug/L
Chloroform	BLOD	0.50	ug/L
Chloromethane	BLOD	1.00	ug/L
cis-1,2-Dichloroethylene	BLOD	1.00	ug/L
cis-1,3-Dichloropropene	BLOD	1.00	ug/L
Dibromochloromethane	BLOD	1.00	ug/L
Dibromomethane	BLOD	1.00	ug/L
Dichlorodifluoromethane	BLOD	1.00	ug/L
Di-isopropyl ether (DIPE)	BLOD	5.00	ug/L
Ethylbenzene	BLOD	1.00	ug/L
Hexachlorobutadiene	BLOD	1.00	ug/L
Iodomethane	BLOD	10.0	ug/L
Isopropylbenzene	BLOD	1.00	ug/L

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
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Date Issued: 11/22/2017 11:42:48AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0788 - SW5030B

Blank (BZJ0788-BLK1)

Prepared & Analyzed: 10/26/2016

m+p-Xylenes	BLOD	2.00	ug/L							
Methylene chloride	BLOD	4.00	ug/L							
Methyl-t-butyl ether (MTBE)	BLOD	1.00	ug/L							
Naphthalene	BLOD	1.00	ug/L							
n-Butylbenzene	BLOD	1.00	ug/L							
n-Propylbenzene	BLOD	1.00	ug/L							
o-Xylene	BLOD	1.00	ug/L							
sec-Butylbenzene	BLOD	1.00	ug/L							
Styrene	BLOD	1.00	ug/L							
tert-Butylbenzene	BLOD	1.00	ug/L							
Tetrachloroethylene (PCE)	BLOD	1.00	ug/L							
Toluene	BLOD	1.00	ug/L							
trans-1,2-Dichloroethylene	BLOD	1.00	ug/L							
trans-1,3-Dichloropropene	BLOD	1.00	ug/L							
Trichloroethylene	BLOD	1.00	ug/L							
Trichlorofluoromethane	BLOD	1.00	ug/L							
Vinyl acetate	BLOD	10.0	ug/L							
Vinyl chloride	BLOD	0.50	ug/L							
Xylenes, Total	BLOD	3.00	ug/L							
<hr/>										
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>51.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>70-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>49.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.8</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>50.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>	<i>80-119</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>50.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>	<i>85-120</i>			

LCS (BZJ0788-BS1)

Prepared & Analyzed: 10/26/2016

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0788 - SW5030B

LCS (BZJ0788-BS1)

Prepared & Analyzed: 10/26/2016

1,1,1,2-Tetrachloroethane	48.4	0.4	ug/L	50.0		96.7	80-130			
1,1,1-Trichloroethane	52.6	1	ug/L	50.0		105	65-130			
1,1,2,2-Tetrachloroethane	50.0	0.4	ug/L	50.0		99.9	65-130			
1,1,2-Trichloroethane	51.4	1	ug/L	50.0		103	75-125			
1,1-Dichloroethane	50.2	1	ug/L	50.0		100	70-135			
1,1-Dichloroethylene	49.0	1	ug/L	50.0		98.1	70-130			
1,1-Dichloropropene	49.3	1	ug/L	50.0		98.5	75-135			
1,2,3-Trichlorobenzene	53.5	1	ug/L	50.0		107	55-140			
1,2,3-Trichloropropane	47.6	1	ug/L	50.0		95.1	75-125			
1,2,4-Trichlorobenzene	51.9	1	ug/L	50.0		104	65-135			
1,2,4-Trimethylbenzene	52.3	1	ug/L	50.0		105	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	47.9	4	ug/L	50.0		95.9	50-130			
1,2-Dibromoethane (EDB)	53.0	1	ug/L	50.0		106	80-120			
1,2-Dichlorobenzene	52.8	1	ug/L	50.0		106	70-120			
1,2-Dichloroethane	50.2	1	ug/L	50.0		100	70-130			
1,2-Dichloropropane	50.3	1	ug/L	50.0		101	75-125			
1,3,5-Trimethylbenzene	52.2	1	ug/L	50.0		104	75-125			
1,3-Dichlorobenzene	51.3	1	ug/L	50.0		103	75-125			
1,3-Dichloropropane	50.1	1	ug/L	50.0		100	75-125			
1,4-Dichlorobenzene	53.6	1	ug/L	50.0		107	75-125			
2,2-Dichloropropane	51.9	2	ug/L	50.0		104	70-135			
2-Butanone (MEK)	51.0	10	ug/L	50.0		102	30-150			
2-Chlorotoluene	53.8	1	ug/L	50.0		108	75-125			
2-Hexanone (MBK)	56.4	5	ug/L	50.0		113	55-130			
4-Chlorotoluene	51.6	1	ug/L	50.0		103	75-130			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0788 - SW5030B

LCS (BZJ0788-BS1)

Prepared & Analyzed: 10/26/2016

4-Isopropyltoluene	52.4	1	ug/L	50.0		105	75-130			
4-Methyl-2-pentanone (MIBK)	54.2	5	ug/L	50.0		108	60-135			
Acetone	51.2	10	ug/L	50.0		102	40-140			
Benzene	52.2	1	ug/L	50.0		104	80-120			
Bromobenzene	52.6	1	ug/L	50.0		105	75-125			
Bromochloromethane	53.4	1	ug/L	50.0		107	65-130			
Bromodichloromethane	54.2	0.5	ug/L	50.0		108	75-120			
Bromoform	49.3	1	ug/L	50.0		98.6	70-130			
Bromomethane	46.5	1	ug/L	50.0		93.0	30-145			
Carbon disulfide	35.3	10	ug/L	50.0		70.7	35-160			
Carbon tetrachloride	51.3	1	ug/L	50.0		103	65-140			
Chlorobenzene	51.1	1	ug/L	50.0		102	80-120			
Chloroethane	50.5	1	ug/L	50.0		101	60-135			
Chloroform	49.8	0.5	ug/L	50.0		99.6	65-135			
Chloromethane	48.3	1	ug/L	50.0		96.7	40-125			
cis-1,2-Dichloroethylene	52.0	1	ug/L	50.0		104	70-125			
cis-1,3-Dichloropropene	46.7	1	ug/L	50.0		93.4	70-130			
Dibromochloromethane	56.7	1	ug/L	50.0		113	60-135			
Dibromomethane	53.0	1	ug/L	50.0		106	75-125			
Dichlorodifluoromethane	48.4	1	ug/L	50.0		96.7	30-155			
Ethylbenzene	52.5	1	ug/L	50.0		105	75-125			
Hexachlorobutadiene	50.3	1	ug/L	50.0		101	50-140			
Isopropylbenzene	49.6	1	ug/L	50.0		99.3	75-125			
m+p-Xylenes	102	2	ug/L	100		102	75-130			
Methylene chloride	53.4	4	ug/L	50.0		107	55-140			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0788 - SW5030B

LCS (BZJ0788-BS1)

Prepared & Analyzed: 10/26/2016

Methyl-t-butyl ether (MTBE)	50.8	1	ug/L	50.0		102	65-125			
Naphthalene	53.1	1	ug/L	50.0		106	55-140			
n-Butylbenzene	54.1	1	ug/L	50.0		108	70-135			
n-Propylbenzene	52.3	1	ug/L	50.0		105	70-130			
o-Xylene	52.2	1	ug/L	50.0		104	80-120			
sec-Butylbenzene	52.7	1	ug/L	50.0		105	70-125			
Styrene	53.5	1	ug/L	50.0		107	65-135			
tert-Butylbenzene	51.9	1	ug/L	50.0		104	70-130			
Tetrachloroethylene (PCE)	48.3	1	ug/L	50.0		96.6	45-150			
Toluene	53.3	1	ug/L	50.0		107	75-120			
trans-1,2-Dichloroethylene	52.6	1	ug/L	50.0		105	60-140			
trans-1,3-Dichloropropene	49.6	1	ug/L	50.0		99.2	55-140			
Trichloroethylene	48.4	1	ug/L	50.0		96.9	70-125			
Trichlorofluoromethane	46.9	1	ug/L	50.0		93.8	60-145			
Vinyl chloride	49.0	0.5	ug/L	50.0		97.9	50-145			

Surr: 1,2-Dichloroethane-d4 (Surr)

53.2 ug/L 50.0 106 70-120

Surr: 4-Bromofluorobenzene (Surr)

50.1 ug/L 50.0 100 75-120

Surr: Dibromofluoromethane (Surr)

50.6 ug/L 50.0 101 80-119

Surr: Toluene-d8 (Surr)

50.2 ug/L 50.0 100 85-120

Matrix Spike (BZJ0788-MS1)

Source: 16J0614-01

Prepared & Analyzed: 10/26/2016

1,1,1,2-Tetrachloroethane	48.7	0.4	ug/L	50.0	BLOD	97.5	80-130			
1,1,1-Trichloroethane	53.1	1	ug/L	50.0	BLOD	106	65-130			
1,1,2,2-Tetrachloroethane	53.1	0.4	ug/L	50.0	BLOD	106	65-130			
1,1,2-Trichloroethane	53.0	1	ug/L	50.0	BLOD	106	75-125			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0788 - SW5030B

Matrix Spike (BZJ0788-MS1)	Source: 16J0614-01			Prepared & Analyzed: 10/26/2016						
1,1-Dichloroethane	52.0	1	ug/L	50.0	BLOD	104	70-135			
1,1-Dichloroethylene	47.3	1	ug/L	50.0	BLOD	94.6	70-130			
1,1-Dichloropropene	48.4	1	ug/L	50.0	BLOD	96.8	75-135			
1,2,3-Trichlorobenzene	54.7	1	ug/L	50.0	BLOD	109	55-140			
1,2,3-Trichloropropane	51.4	1	ug/L	50.0	BLOD	103	75-125			
1,2,4-Trichlorobenzene	52.1	1	ug/L	50.0	BLOD	104	65-135			
1,2,4-Trimethylbenzene	53.1	1	ug/L	50.0	BLOD	106	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	50.5	4	ug/L	50.0	BLOD	101	50-130			
1,2-Dibromoethane (EDB)	54.9	1	ug/L	50.0	BLOD	110	80-120			
1,2-Dichlorobenzene	54.3	1	ug/L	50.0	BLOD	109	70-120			
1,2-Dichloroethane	52.7	1	ug/L	50.0	BLOD	105	70-130			
1,2-Dichloropropane	51.4	1	ug/L	50.0	BLOD	103	75-125			
1,3,5-Trimethylbenzene	53.1	1	ug/L	50.0	BLOD	106	75-125			
1,3-Dichlorobenzene	51.3	1	ug/L	50.0	BLOD	103	75-125			
1,3-Dichloropropane	51.5	1	ug/L	50.0	BLOD	103	75-125			
1,4-Dichlorobenzene	52.6	1	ug/L	50.0	BLOD	105	75-125			
2,2-Dichloropropane	52.2	2	ug/L	50.0	BLOD	104	70-135			
2-Butanone (MEK)	52.0	10	ug/L	50.0	BLOD	104	30-150			
2-Chlorotoluene	53.5	1	ug/L	50.0	BLOD	107	75-125			
2-Hexanone (MBK)	60.2	5	ug/L	50.0	BLOD	120	55-130			
4-Chlorotoluene	51.0	1	ug/L	50.0	BLOD	102	75-130			
4-Isopropyltoluene	52.5	1	ug/L	50.0	BLOD	105	75-130			
4-Methyl-2-pentanone (MIBK)	56.0	5	ug/L	50.0	BLOD	112	60-135			
Acetone	52.3	10	ug/L	50.0	BLOD	102	40-140			
Benzene	51.9	1	ug/L	50.0	BLOD	104	80-120			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0788 - SW5030B

Matrix Spike (BZJ0788-MS1)	Source: 16J0614-01			Prepared & Analyzed: 10/26/2016						
Bromobenzene	52.9	1	ug/L	50.0	BLOD	106	75-125			
Bromochloromethane	55.9	1	ug/L	50.0	BLOD	112	65-130			
Bromodichloromethane	57.3	0.5	ug/L	50.0	BLOD	115	75-120			
Bromoform	52.4	1	ug/L	50.0	BLOD	105	70-130			
Bromomethane	43.4	1	ug/L	50.0	BLOD	86.7	30-145			
Carbon disulfide	33.1	10	ug/L	50.0	BLOD	66.2	35-160			
Carbon tetrachloride	51.5	1	ug/L	50.0	BLOD	103	65-140			
Chlorobenzene	51.6	1	ug/L	50.0	BLOD	103	80-120			
Chloroethane	48.3	1	ug/L	50.0	BLOD	96.6	60-135			
Chloroform	51.0	0.5	ug/L	50.0	BLOD	102	65-135			
Chloromethane	44.9	1	ug/L	50.0	BLOD	89.8	40-125			
cis-1,2-Dichloroethylene	51.8	1	ug/L	50.0	BLOD	104	70-125			
cis-1,3-Dichloropropene	47.8	1	ug/L	50.0	BLOD	95.6	70-130			
Dibromochloromethane	58.1	1	ug/L	50.0	BLOD	116	60-135			
Dibromomethane	54.4	1	ug/L	50.0	BLOD	109	75-125			
Dichlorodifluoromethane	48.1	1	ug/L	50.0	BLOD	96.2	30-155			
Ethylbenzene	52.3	1	ug/L	50.0	BLOD	105	75-125			
Hexachlorobutadiene	49.5	1	ug/L	50.0	BLOD	99.1	50-140			
Isopropylbenzene	49.4	1	ug/L	50.0	BLOD	98.9	75-125			
m+p-Xylenes	102	2	ug/L	100	BLOD	102	75-130			
Methylene chloride	54.8	4	ug/L	50.0	BLOD	108	55-140			
Methyl-t-butyl ether (MTBE)	53.3	1	ug/L	50.0	BLOD	106	65-125			
Naphthalene	56.5	1	ug/L	50.0	BLOD	113	55-140			
n-Butylbenzene	53.8	1	ug/L	50.0	BLOD	108	70-135			
n-Propylbenzene	52.3	1	ug/L	50.0	BLOD	105	70-130			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0788 - SW5030B

Matrix Spike (BZJ0788-MS1)	Source: 16J0614-01			Prepared & Analyzed: 10/26/2016						
o-Xylene	53.1	1	ug/L	50.0	BLOD	106	80-120			
sec-Butylbenzene	52.7	1	ug/L	50.0	BLOD	105	70-125			
Styrene	53.6	1	ug/L	50.0	BLOD	107	65-135			
tert-Butylbenzene	52.9	1	ug/L	50.0	BLOD	106	70-130			
Tetrachloroethylene (PCE)	48.5	1	ug/L	50.0	BLOD	96.9	45-150			
Toluene	52.6	1	ug/L	50.0	BLOD	105	75-120			
trans-1,2-Dichloroethylene	53.1	1	ug/L	50.0	BLOD	106	60-140			
trans-1,3-Dichloropropene	51.4	1	ug/L	50.0	BLOD	103	55-140			
Trichloroethylene	47.8	1	ug/L	50.0	BLOD	95.7	70-125			
Trichlorofluoromethane	46.8	1	ug/L	50.0	BLOD	93.6	60-145			
Vinyl chloride	46.4	0.5	ug/L	50.0	BLOD	92.8	50-145			
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<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	51.9		ug/L	50.0		104	70-120			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	51.1		ug/L	50.0		102	75-120			
<i>Surr: Dibromofluoromethane (Surr)</i>	50.8		ug/L	50.0		102	80-119			
<i>Surr: Toluene-d8 (Surr)</i>	50.5		ug/L	50.0		101	85-120			

Matrix Spike Dup (BZJ0788-MSD1)	Source: 16J0614-01			Prepared & Analyzed: 10/26/2016						
1,1,1,2-Tetrachloroethane	54.4	0.4	ug/L	50.0	BLOD	109	80-130	11.0	30	
1,1,1-Trichloroethane	57.2	1	ug/L	50.0	BLOD	114	65-130	7.46	30	
1,1,2,2-Tetrachloroethane	57.6	0.4	ug/L	50.0	BLOD	115	65-130	8.09	30	
1,1,2-Trichloroethane	56.7	1	ug/L	50.0	BLOD	113	75-125	6.84	30	
1,1-Dichloroethane	56.4	1	ug/L	50.0	BLOD	113	70-135	8.17	30	
1,1-Dichloroethylene	52.8	1	ug/L	50.0	BLOD	106	70-130	11.0	30	
1,1-Dichloropropene	53.1	1	ug/L	50.0	BLOD	106	75-135	9.30	30	
1,2,3-Trichlorobenzene	59.8	1	ug/L	50.0	BLOD	119	55-140	8.96	30	

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0788 - SW5030B

Matrix Spike Dup (BZJ0788-MSD1)	Source: 16J0614-01			Prepared & Analyzed: 10/26/2016						
1,2,3-Trichloropropane	55.2	1	ug/L	50.0	BLOD	110	75-125	7.05	30	
1,2,4-Trichlorobenzene	56.4	1	ug/L	50.0	BLOD	112	65-135	7.91	30	
1,2,4-Trimethylbenzene	57.2	1	ug/L	50.0	BLOD	114	75-130	7.49	30	
1,2-Dibromo-3-chloropropane (DBCP)	54.6	4	ug/L	50.0	BLOD	109	50-130	7.79	30	
1,2-Dibromoethane (EDB)	60.3	1	ug/L	50.0	BLOD	121	80-120	9.36	30	C
1,2-Dichlorobenzene	57.9	1	ug/L	50.0	BLOD	116	70-120	6.43	30	
1,2-Dichloroethane	56.8	1	ug/L	50.0	BLOD	114	70-130	7.45	30	
1,2-Dichloropropane	54.9	1	ug/L	50.0	BLOD	110	75-125	6.70	30	
1,3,5-Trimethylbenzene	57.6	1	ug/L	50.0	BLOD	115	75-125	8.11	30	
1,3-Dichlorobenzene	56.4	1	ug/L	50.0	BLOD	113	75-125	9.46	30	
1,3-Dichloropropane	56.1	1	ug/L	50.0	BLOD	112	75-125	8.55	30	
1,4-Dichlorobenzene	57.6	1	ug/L	50.0	BLOD	115	75-125	9.12	30	
2,2-Dichloropropane	57.2	2	ug/L	50.0	BLOD	114	70-135	9.13	30	
2-Butanone (MEK)	50.9	10	ug/L	50.0	BLOD	102	30-150	2.25	30	
2-Chlorotoluene	58.5	1	ug/L	50.0	BLOD	117	75-125	8.80	30	
2-Hexanone (MBK)	58.0	5	ug/L	50.0	BLOD	116	55-130	3.84	30	
4-Chlorotoluene	55.4	1	ug/L	50.0	BLOD	111	75-130	8.30	30	
4-Isopropyltoluene	57.2	1	ug/L	50.0	BLOD	114	75-130	8.44	30	
4-Methyl-2-pentanone (MIBK)	54.4	5	ug/L	50.0	BLOD	109	60-135	2.90	30	
Acetone	50.2	10	ug/L	50.0	BLOD	97.9	40-140	4.08	30	
Benzene	57.4	1	ug/L	50.0	BLOD	115	80-120	10.0	30	
Bromobenzene	58.0	1	ug/L	50.0	BLOD	116	75-125	9.23	30	
Bromochloromethane	60.9	1	ug/L	50.0	BLOD	122	65-130	8.50	30	
Bromodichloromethane	61.0	0.5	ug/L	50.0	BLOD	122	75-120	6.19	30	C
Bromoform	56.3	1	ug/L	50.0	BLOD	113	70-130	7.10	30	

Certificate of Analysis

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0788 - SW5030B

Matrix Spike Dup (BZJ0788-MSD1)	Source: 16J0614-01			Prepared & Analyzed: 10/26/2016						
Bromomethane	51.4	1	ug/L	50.0	BLOD	103	30-145	16.9	30	
Carbon disulfide	32.6	10	ug/L	50.0	BLOD	65.1	35-160	1.65	30	
Carbon tetrachloride	56.7	1	ug/L	50.0	BLOD	113	65-140	9.61	30	
Chlorobenzene	57.6	1	ug/L	50.0	BLOD	115	80-120	10.9	30	
Chloroethane	55.4	1	ug/L	50.0	BLOD	111	60-135	13.7	30	
Chloroform	55.2	0.5	ug/L	50.0	BLOD	110	65-135	7.85	30	
Chloromethane	51.6	1	ug/L	50.0	BLOD	103	40-125	13.9	30	
cis-1,2-Dichloroethylene	57.6	1	ug/L	50.0	BLOD	115	70-125	10.5	30	
cis-1,3-Dichloropropene	51.4	1	ug/L	50.0	BLOD	103	70-130	7.28	30	
Dibromochloromethane	61.7	1	ug/L	50.0	BLOD	123	60-135	5.95	30	
Dibromomethane	59.4	1	ug/L	50.0	BLOD	119	75-125	8.80	30	
Dichlorodifluoromethane	54.2	1	ug/L	50.0	BLOD	108	30-155	11.9	30	
Ethylbenzene	58.5	1	ug/L	50.0	BLOD	117	75-125	11.2	30	
Hexachlorobutadiene	55.2	1	ug/L	50.0	BLOD	110	50-140	10.8	30	
Isopropylbenzene	55.9	1	ug/L	50.0	BLOD	112	75-125	12.2	30	
m+p-Xylenes	114	2	ug/L	100	BLOD	114	75-130	11.2	30	
Methylene chloride	59.5	4	ug/L	50.0	BLOD	117	55-140	8.13	30	
Methyl-t-butyl ether (MTBE)	57.2	1	ug/L	50.0	BLOD	114	65-125	7.02	30	
Naphthalene	61.1	1	ug/L	50.0	BLOD	122	55-140	7.83	30	
n-Butylbenzene	59.2	1	ug/L	50.0	BLOD	118	70-135	9.53	30	
n-Propylbenzene	56.9	1	ug/L	50.0	BLOD	114	70-130	8.39	30	
o-Xylene	59.1	1	ug/L	50.0	BLOD	118	80-120	10.7	30	
sec-Butylbenzene	57.3	1	ug/L	50.0	BLOD	115	70-125	8.38	30	
Styrene	60.2	1	ug/L	50.0	BLOD	120	65-135	11.7	30	
tert-Butylbenzene	58.2	1	ug/L	50.0	BLOD	116	70-130	9.59	30	

Certificate of Analysis

Client Name: Timmons Group
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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0788 - SW5030B

Matrix Spike Dup (BZJ0788-MSD1)	Source: 16J0614-01		Prepared & Analyzed: 10/26/2016							
Tetrachloroethylene (PCE)	54.2	1	ug/L	50.0	BLOD	108	45-150	11.3	30	
Toluene	57.2	1	ug/L	50.0	BLOD	114	75-120	8.43	30	
trans-1,2-Dichloroethylene	57.1	1	ug/L	50.0	BLOD	114	60-140	7.24	30	
trans-1,3-Dichloropropene	54.8	1	ug/L	50.0	BLOD	110	55-140	6.54	30	
Trichloroethylene	53.3	1	ug/L	50.0	BLOD	107	70-125	10.8	30	
Trichlorofluoromethane	51.7	1	ug/L	50.0	BLOD	103	60-145	10.0	30	
Vinyl chloride	53.8	0.5	ug/L	50.0	BLOD	108	50-145	14.7	30	
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>51.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>70-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>51.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>103</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>49.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.9</i>	<i>80-119</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>50.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>	<i>85-120</i>			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0826 - SW3510C

Blank (BZJ0826-BLK1)

Prepared: 10/28/2016 Analyzed: 11/01/2016

1,2,4,5-Tetrachlorobenzene	BLOD	10.0	ug/L
1,2,4-Trichlorobenzene	BLOD	10.0	ug/L
1,2-Dichlorobenzene	BLOD	10.0	ug/L
1,2-Diphenylhydrazine	BLOD	10.0	ug/L
1,3-Dichlorobenzene	BLOD	10.0	ug/L
1,3-Dinitrobenzene	BLOD	2.50	ug/L
1,4-Dichlorobenzene	BLOD	10.0	ug/L
1-Naphthylamine	BLOD	10.0	ug/L
2,3,4,6-Tetrachlorophenol	BLOD	10.0	ug/L
2,4,5-Trichlorophenol	BLOD	10.0	ug/L
2,4,6-Trichlorophenol	BLOD	10.0	ug/L
2,4-Dichlorophenol	BLOD	10.0	ug/L
2,4-Dimethylphenol	BLOD	0.50	ug/L
2,4-Dinitrophenol	BLOD	50.0	ug/L
2,4-Dinitrotoluene	BLOD	10.0	ug/L
2,6-Dichlorophenol	BLOD	10.0	ug/L
2,6-Dinitrotoluene	BLOD	10.0	ug/L
2-Chloronaphthalene	BLOD	10.0	ug/L
2-Chlorophenol	BLOD	10.0	ug/L
2-Methylnaphthalene	BLOD	10.0	ug/L
2-Naphthylamine	BLOD	10.0	ug/L
2-Nitroaniline	BLOD	20.0	ug/L
2-Nitrophenol	BLOD	10.0	ug/L
3,3'-Dichlorobenzidine	BLOD	10.0	ug/L
3-Methylcholanthrene	BLOD	10.0	ug/L

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0826 - SW3510C

Blank (BZJ0826-BLK1)

Prepared: 10/28/2016 Analyzed: 11/01/2016

3-Nitroaniline	BLOD	20.0	ug/L							
4,6-Dinitro-2-methylphenol	BLOD	50.0	ug/L							
4-Aminobiphenyl	BLOD	10.0	ug/L							
4-Bromophenyl phenyl ether	BLOD	10.0	ug/L							
4-Chloroaniline	BLOD	10.0	ug/L							
4-Chlorophenyl phenyl ether	BLOD	10.0	ug/L							
4-Nitroaniline	BLOD	20.0	ug/L							
4-Nitrophenol	BLOD	50.0	ug/L							
7,12-Dimethylbenz (a) anthracene	BLOD	10.0	ug/L							
Acenaphthene	BLOD	10.0	ug/L							
Acenaphthylene	BLOD	10.0	ug/L							
Acetophenone	BLOD	20.0	ug/L							
Aniline	BLOD	50.0	ug/L							
Anthracene	BLOD	10.0	ug/L							
Benzidine	BLOD	50.0	ug/L							
Benzo (a) anthracene	BLOD	0.05	ug/L							
Benzo (a) pyrene	BLOD	10.0	ug/L							
Benzo (b) fluoranthene	BLOD	10.0	ug/L							
Benzo (g,h,i) perylene	BLOD	10.0	ug/L							
Benzo (k) fluoranthene	BLOD	10.0	ug/L							
Benzoic acid	BLOD	50.0	ug/L							
Benzyl alcohol	BLOD	20.0	ug/L							
bis (2-Chloroethoxy) methane	BLOD	10.0	ug/L							
bis (2-Chloroethyl) ether	BLOD	10.0	ug/L							
2,2'-Oxybis (1-chloropropane)	BLOD	10.0	ug/L							

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Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0826 - SW3510C

Blank (BZJ0826-BLK1)

Prepared: 10/28/2016 Analyzed: 11/01/2016

bis (2-Ethylhexyl) phthalate	BLOD	10.0	ug/L							
Butyl benzyl phthalate	BLOD	10.0	ug/L							
Chrysene	BLOD	10.0	ug/L							
Dibenz (a,h) anthracene	BLOD	10.0	ug/L							
Dibenz (a,j) acridine	BLOD	10.0	ug/L							
Dibenzofuran	BLOD	5.00	ug/L							
Diethyl phthalate	BLOD	10.0	ug/L							
Dimethyl phthalate	BLOD	10.0	ug/L							
Di-n-butyl phthalate	BLOD	10.0	ug/L							
Di-n-octyl phthalate	BLOD	10.0	ug/L							
Diphenylamine	BLOD	10.0	ug/L							
Ethyl methanesulfonate	BLOD	20.0	ug/L							
Fluoranthene	BLOD	10.0	ug/L							
Fluorene	BLOD	10.0	ug/L							
Hexachlorobenzene	BLOD	1.00	ug/L							
Hexachlorobutadiene	BLOD	10.0	ug/L							
Hexachlorocyclopentadiene	BLOD	10.0	ug/L							
Hexachloroethane	BLOD	10.0	ug/L							
Indeno (1,2,3-cd) pyrene	BLOD	10.0	ug/L							
Isophorone	BLOD	10.0	ug/L							
m+p-Cresols	BLOD	10.0	ug/L							
Methyl methanesulfonate	BLOD	10.0	ug/L							
Naphthalene	BLOD	5.00	ug/L							
Nitrobenzene	BLOD	10.0	ug/L							
n-Nitrosodimethylamine	BLOD	10.0	ug/L							

Certificate of Analysis

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0826 - SW3510C

Blank (BZJ0826-BLK1)

Prepared: 10/28/2016 Analyzed: 11/01/2016

n-Nitrosodi-n-butylamine	BLOD	10.0	ug/L							
n-Nitrosodi-n-propylamine	BLOD	10.0	ug/L							
n-Nitrosodiphenylamine	BLOD	10.0	ug/L							
n-Nitrosopiperidine	BLOD	10.0	ug/L							
o+m+p-Cresols	BLOD	10.0	ug/L							
o-Cresol	BLOD	10.0	ug/L							
p-(Dimethylamino) azobenzene	BLOD	2.50	ug/L							
p-Chloro-m-cresol	BLOD	10.0	ug/L							
Pentachloronitrobenzene (quintozene)	BLOD	10.0	ug/L							
Pentachlorophenol	BLOD	20.0	ug/L							
Phenacetin	BLOD	10.0	ug/L							
Phenanthrene	BLOD	10.0	ug/L							
Phenol	BLOD	10.0	ug/L							
Pronamide	BLOD	10.0	ug/L							
Pyrene	BLOD	10.0	ug/L							
Pyridine	BLOD	10.0	ug/L							
<hr/>										
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	90.5		ug/L	100		90.5	40-125			
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	47.4		ug/L	50.0		94.8	23-87			S
<i>Surr: 2-Fluorophenol (Surr)</i>	64.0		ug/L	100		64.0	14-52			S
<i>Surr: Nitrobenzene-d5 (Surr)</i>	46.0		ug/L	50.0		92.0	40-110			
<i>Surr: Phenol-d5 (Surr)</i>	40.1		ug/L	100		40.1	5-33			S
<i>Surr: p-Terphenyl-d14 (Surr)</i>	59.3		ug/L	50.0		119	27-133			

LCS (BZJ0826-BS1)

Prepared: 10/28/2016 Analyzed: 11/01/2016

1,2,4-Trichlorobenzene	37.2	10.0	ug/L	49.7		74.9	21.8-66.7			L
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Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0826 - SW3510C

LCS (BZJ0826-BS1)

Prepared: 10/28/2016 Analyzed: 11/01/2016

1,4-Dichlorobenzene	36.2	10.0	ug/L	50.0		72.4	20-124			
2,4-Dinitrotoluene	35.8	10.0	ug/L	50.0		71.5	39-139			
2-Chlorophenol	71.1	10.0	ug/L	99.0		71.8	35-105			
4-Nitrophenol	36.1	50.0	ug/L	100		36.1	0-125			
Acenaphthene	36.6	10.0	ug/L	49.8		73.7	45-110			
n-Nitrosodi-n-propylamine	38.4	10.0	ug/L	49.8		77.1	35-130			
p-Chloro-m-cresol	73.5	10.0	ug/L	100		73.5	45-110			
Pentachlorophenol	83.4	20.0	ug/L	99.0		84.2	40-115			
Phenol	34.5	10.0	ug/L	100		34.5	0-115			
Pyrene	41.9	10.0	ug/L	50.0		83.9	50-130			
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	<i>88.3</i>		ug/L	<i>100</i>		<i>88.3</i>	<i>40-125</i>			
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	<i>41.1</i>		ug/L	<i>50.0</i>		<i>82.3</i>	<i>23-87</i>			
<i>Surr: 2-Fluorophenol (Surr)</i>	<i>57.2</i>		ug/L	<i>100</i>		<i>57.2</i>	<i>14-52</i>			S
<i>Surr: Nitrobenzene-d5 (Surr)</i>	<i>43.1</i>		ug/L	<i>50.0</i>		<i>86.1</i>	<i>40-110</i>			
<i>Surr: Phenol-d5 (Surr)</i>	<i>39.3</i>		ug/L	<i>100</i>		<i>39.3</i>	<i>5-33</i>			S
<i>Surr: p-Terphenyl-d14 (Surr)</i>	<i>48.5</i>		ug/L	<i>50.0</i>		<i>97.1</i>	<i>27-133</i>			

Matrix Spike (BZJ0826-MS1)

Source: 16J0652-03

Prepared: 10/28/2016 Analyzed: 11/02/2016

1,2,4-Trichlorobenzene	43.1	10.4	ug/L	51.8	BLOD	83.2	44-142			
1,4-Dichlorobenzene	43.2	10.4	ug/L	52.1	BLOD	83.0	20-124			
2,4-Dinitrotoluene	41.0	10.4	ug/L	52.1	BLOD	78.8	39-139			
2-Chlorophenol	76.9	10.4	ug/L	103	BLOD	74.5	35-105			
4-Nitrophenol	37.3	52.1	ug/L	104	BLOD	35.8	0-125			
Acenaphthene	42.5	10.4	ug/L	51.8	BLOD	82.1	4-98			
n-Nitrosodi-n-propylamine	44.0	10.4	ug/L	51.9	BLOD	84.9	35-130			



Certificate of Analysis

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZJ0826 - SW3510C										
Matrix Spike (BZJ0826-MS1)		Source: 16J0652-03			Prepared: 10/28/2016 Analyzed: 11/02/2016					
p-Chloro-m-cresol	77.9	10.4	ug/L	104	BLOD	74.8	45-110			
Pentachlorophenol	92.4	20.8	ug/L	103	BLOD	89.6	40-115			
Phenol	36.2	10.4	ug/L	104	BLOD	34.8	0-115			
Pyrene	46.0	10.4	ug/L	52.1	BLOD	88.3	50-130			
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	90.1		ug/L	104		86.5	40-125			
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	45.2		ug/L	52.1		86.8	23-87			
<i>Surr: 2-Fluorophenol (Surr)</i>	59.4		ug/L	104		57.0	14-52			S
<i>Surr: Nitrobenzene-d5 (Surr)</i>	45.8		ug/L	52.1		88.0	40-110			
<i>Surr: Phenol-d5 (Surr)</i>	38.5		ug/L	104		36.9	5-33			S
<i>Surr: p-Terphenyl-d14 (Surr)</i>	42.0		ug/L	52.1		80.7	27-133			
Matrix Spike Dup (BZJ0826-MSD1)		Source: 16J0652-03			Prepared: 10/28/2016 Analyzed: 11/02/2016					
1,2,4-Trichlorobenzene	41.6	10.2	ug/L	50.7	BLOD	82.1	44-142	3.42	20	
1,4-Dichlorobenzene	40.7	10.2	ug/L	51.0	BLOD	79.7	20-124	6.04	20	
2,4-Dinitrotoluene	38.3	10.2	ug/L	51.0	BLOD	75.1	39-139	6.83	20	
2-Chlorophenol	73.6	10.2	ug/L	101	BLOD	72.9	35-105	4.27	20	
4-Nitrophenol	32.9	51.0	ug/L	102	BLOD	32.2	0-125	12.5	20	
Acenaphthene	40.6	10.2	ug/L	50.8	BLOD	80.0	4-98	4.69	20	
n-Nitrosodi-n-propylamine	40.7	10.2	ug/L	50.8	BLOD	80.0	35-130	7.95	20	
p-Chloro-m-cresol	74.5	10.2	ug/L	102	BLOD	73.0	45-110	4.41	20	
Pentachlorophenol	90.5	20.4	ug/L	101	BLOD	89.6	40-115	2.11	20	
Phenol	30.7	10.2	ug/L	102	BLOD	30.1	0-115	16.4	20	
Pyrene	44.9	10.2	ug/L	51.0	BLOD	87.9	50-130	2.47	20	
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	89.3		ug/L	102		87.5	40-125			
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	43.4		ug/L	51.0		85.1	23-87			

Certificate of Analysis

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0826 - SW3510C

Matrix Spike Dup (BZJ0826-MSD1) **Source: 16J0652-03** Prepared: 10/28/2016 Analyzed: 11/02/2016

<i>Surr: 2-Fluorophenol (Surr)</i>	51.0		ug/L	102		50.0	14-52			
<i>Surr: Nitrobenzene-d5 (Surr)</i>	44.1		ug/L	51.0		86.5	40-110			
<i>Surr: Phenol-d5 (Surr)</i>	33.1		ug/L	102		32.5	5-33			
<i>Surr: p-Terphenyl-d14 (Surr)</i>	46.3		ug/L	51.0		90.7	27-133			

Certificate of Analysis

Client Name: Timmons Group
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Date Issued: 11/22/2017 11:42:48AM

Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0750 - SW3510C

Blank (BZJ0750-BLK1)

Prepared: 10/26/2016 Analyzed: 10/27/2016

PCB as Aroclor 1016	BLOD	0.200	ug/L							
4,4'-DDD	BLOD	0.050	ug/L							
PCB as Aroclor 1221	BLOD	0.200	ug/L							
PCB as Aroclor 1232	BLOD	0.200	ug/L							
4,4'-DDE	BLOD	0.050	ug/L							
PCB as Aroclor 1242	BLOD	0.200	ug/L							
PCB as Aroclor 1248	BLOD	0.200	ug/L							
4,4'-DDT	BLOD	0.050	ug/L							
PCB as Aroclor 1254	BLOD	0.200	ug/L							
PCB as Aroclor 1260	BLOD	0.200	ug/L							
Aldrin	BLOD	0.050	ug/L							
alpha-BHC	BLOD	0.050	ug/L							
beta-BHC	BLOD	0.050	ug/L							
Chlordane	BLOD	0.200	ug/L							
delta-BHC	BLOD	0.050	ug/L							
Dieldrin	BLOD	0.050	ug/L							
Endosulfan I	BLOD	0.050	ug/L							
Endosulfan II	BLOD	0.050	ug/L							
Endosulfan sulfate	BLOD	0.050	ug/L							
Endrin	BLOD	0.050	ug/L							
Endrin aldehyde	BLOD	0.050	ug/L							
gamma-BHC (Lindane)	BLOD	0.050	ug/L							
Heptachlor	BLOD	0.050	ug/L							
Heptachlor epoxide	BLOD	0.050	ug/L							
Methoxychlor	BLOD	0.050	ug/L							

Certificate of Analysis

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Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0750 - SW3510C

Blank (BZJ0750-BLK1)

Prepared: 10/26/2016 Analyzed: 10/27/2016

Toxaphene	BLOD	1.00	ug/L							
<i>Surr: DCB</i>	<i>0.0800</i>		ug/L	<i>0.200</i>		<i>40.0</i>	<i>30-105</i>			
<i>Surr: TCMX</i>	<i>0.120</i>		ug/L	<i>0.200</i>		<i>60.0</i>	<i>18-112</i>			
<i>Surr: TCMX</i>	<i>0.150</i>		ug/L	<i>0.200</i>		<i>75.0</i>	<i>30-105</i>			
<i>Surr: DCB</i>	<i>0.120</i>		ug/L	<i>0.200</i>		<i>60.0</i>	<i>27-131</i>			

LCS (BZJ0750-BS1)

Prepared: 10/26/2016 Analyzed: 10/27/2016

4,4'-DDD	0.080	0.050	ug/L	0.100		80.0	23-134			
4,4'-DDE	0.090	0.050	ug/L	0.100		90.0	23-134			
4,4'-DDT	0.080	0.050	ug/L	0.100		80.0	23-134			
Aldrin	0.060	0.050	ug/L	0.100		60.0	23-134			
alpha-BHC	0.050	0.050	ug/L	0.100		50.0	23-134			
beta-BHC	0.070	0.050	ug/L	0.100		70.0	23-134			
delta-BHC	0.070	0.050	ug/L	0.100		70.0	23-134			
Dieldrin	0.060	0.050	ug/L	0.100		60.0	23-134			
Endosulfan I	0.060	0.050	ug/L	0.100		60.0	23-134			
Endosulfan II	0.080	0.050	ug/L	0.100		80.0	23-134			
Endosulfan sulfate	0.080	0.050	ug/L	0.100		80.0	23-134			
Endrin	0.070	0.050	ug/L	0.100		70.0	23-134			
Endrin aldehyde	0.070	0.050	ug/L	0.100		70.0	23-134			
gamma-BHC (Lindane)	0.060	0.050	ug/L	0.100		60.0	23-134			
Heptachlor	0.050	0.050	ug/L	0.100		50.0	23-134			
Heptachlor epoxide	0.070	0.050	ug/L	0.100		70.0	23-134			
Methoxychlor	0.090	0.050	ug/L	0.100		90.0	23-134			
Mirex	0.090	0.050	ug/L	0.100		90.0	23-134			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
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Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZJ0750 - SW3510C										
LCS (BZJ0750-BS1)										
				Prepared: 10/26/2016 Analyzed: 10/27/2016						
<i>Surr: TCMX</i>	0.110		ug/L	0.200		55.0	18-112			
<i>Surr: DCB</i>	0.130		ug/L	0.200		65.0	27-131			
LCS (BZJ0750-BS2)										
				Prepared: 10/26/2016 Analyzed: 10/27/2016						
PCB as Aroclor 1016	0.740	0.200	ug/L				40-120			
PCB as Aroclor 1260	0.680	0.200	ug/L				40-120			
Toxaphene	1.53	1.00	ug/L	2.50		61.2	23-134			
<i>Surr: DCB</i>	0.110		ug/L	0.200		55.0	30-105			
<i>Surr: TCMX</i>	0.120		ug/L	0.200		60.0	30-105			
LCS (BZJ0750-BS3)										
				Prepared: 10/26/2016 Analyzed: 10/27/2016						
Chlordane	1.53	0.200	ug/L	2.50		61.2	23-134			
Matrix Spike (BZJ0750-MS1)										
		Source: 16J0540-01							M4	
				Prepared: 10/26/2016 Analyzed: 10/27/2016						
4,4'-DDD	BLOD	0.054	ug/L	0.108	BLOD		23-134			
4,4'-DDE	BLOD	0.054	ug/L	0.108	BLOD		23-134			
4,4'-DDT	BLOD	0.054	ug/L	0.108	BLOD		23-134			
Aldrin	BLOD	0.054	ug/L	0.108	BLOD		23-134			
alpha-BHC	BLOD	0.054	ug/L	0.108	BLOD		23-134			
beta-BHC	BLOD	0.054	ug/L	0.108	BLOD		23-134			
delta-BHC	BLOD	0.054	ug/L	0.108	BLOD		23-134			
Dieldrin	BLOD	0.054	ug/L	0.108	BLOD		23-134			
Endosulfan I	BLOD	0.054	ug/L	0.108	BLOD		23-134			
Endosulfan II	BLOD	0.054	ug/L	0.108	BLOD		23-134			
Endosulfan sulfate	BLOD	0.054	ug/L	0.108	BLOD		23-134			
Endrin	BLOD	0.054	ug/L	0.108	BLOD		23-134			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
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Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BZJ0750 - SW3510C

Matrix Spike (BZJ0750-MS1)	Source: 16J0540-01		Prepared: 10/26/2016 Analyzed: 10/27/2016				M4
Endrin aldehyde	BLOD	0.054	ug/L	0.108	BLOD		23-134
gamma-BHC (Lindane)	BLOD	0.054	ug/L	0.108	BLOD		23-134
Heptachlor	BLOD	0.054	ug/L	0.108	BLOD		23-134
Heptachlor epoxide	BLOD	0.054	ug/L	0.108	BLOD		23-134
Methoxychlor	BLOD	0.054	ug/L	0.108	BLOD		23-134
Mirex	BLOD	0.054	ug/L	0.108	BLOD		23-134
<i>Surr: TCMX</i>	<i>0.129</i>		ug/L	<i>0.215</i>		<i>60.0</i>	<i>18-112</i>
<i>Surr: DCB</i>	<i>0.215</i>		ug/L	<i>0.215</i>		<i>100</i>	<i>27-131</i>

Matrix Spike Dup (BZJ0750-MSD1)	Source: 16J0540-01		Prepared: 10/26/2016 Analyzed: 10/27/2016				M4	
4,4'-DDD	BLOD	0.053	ug/L	0.105	BLOD		23-134	20
4,4'-DDE	BLOD	0.053	ug/L	0.105	BLOD		23-134	20
4,4'-DDT	BLOD	0.053	ug/L	0.105	BLOD		23-134	20
Aldrin	BLOD	0.053	ug/L	0.105	BLOD		23-134	20
alpha-BHC	BLOD	0.053	ug/L	0.105	BLOD		23-134	20
beta-BHC	BLOD	0.053	ug/L	0.105	BLOD		23-134	20
delta-BHC	BLOD	0.053	ug/L	0.105	BLOD		23-134	20
Dieldrin	BLOD	0.053	ug/L	0.105	BLOD		23-134	20
Endosulfan I	BLOD	0.053	ug/L	0.105	BLOD		23-134	20
Endosulfan II	BLOD	0.053	ug/L	0.105	BLOD		23-134	20
Endosulfan sulfate	BLOD	0.053	ug/L	0.105	BLOD		23-134	20
Endrin	BLOD	0.053	ug/L	0.105	BLOD		23-134	20
Endrin aldehyde	BLOD	0.053	ug/L	0.105	BLOD		23-134	20
gamma-BHC (Lindane)	BLOD	0.053	ug/L	0.105	BLOD		23-134	20
Heptachlor	BLOD	0.053	ug/L	0.105	BLOD		23-134	20

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Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	
Batch BZJ0750 - SW3510C											
Matrix Spike Dup (BZJ0750-MSD1)	Source: 16J0540-01			Prepared: 10/26/2016 Analyzed: 10/27/2016				M4			
Heptachlor epoxide	BLOD	0.053	ug/L	0.105	BLOD		23-134		20		
Methoxychlor	BLOD	0.053	ug/L	0.105	BLOD		23-134		20		
Mirex	BLOD	0.053	ug/L	0.105	BLOD		23-134		20		
<i>Surr: TCMX</i>	<i>0.105</i>		ug/L	<i>0.211</i>		<i>50.0</i>	<i>18-112</i>				
<i>Surr: DCB</i>	<i>0.179</i>		ug/L	<i>0.211</i>		<i>85.0</i>	<i>27-131</i>				

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Organochlorine Herbicides by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZJ0760 - SW3510C										
Blank (BZJ0760-BLK1) Prepared: 10/26/2016 Analyzed: 10/28/2016										
2,4,5-T	BLOD	0.500	ug/L							
2,4,5-TP (Silvex)	BLOD	0.500	ug/L							
2,4-D	BLOD	0.500	ug/L							
Dinoseb	BLOD	0.500	ug/L							
Pentachlorophenol	BLOD	0.500	ug/L							
<i>Surr: DCAA (Surr)</i>	<i>0.722</i>		ug/L	<i>1.11</i>		<i>65.0</i>	<i>60-112</i>			
LCS (BZJ0760-BS1) Prepared: 10/26/2016 Analyzed: 10/28/2016										
2,4,5-T	0.556	0.500	ug/L	0.556		100	53-144			
2,4,5-TP (Silvex)	0.611	0.500	ug/L	0.556		110	52-129			
2,4-D	0.444	0.500	ug/L	0.556		80.0	53-126			
Dinoseb	0.667	0.500	ug/L	0.556		120	60-137			
Pentachlorophenol	0.444	0.500	ug/L	0.556		80.0	52-124			
<i>Surr: DCAA (Surr)</i>	<i>0.667</i>		ug/L	<i>1.11</i>		<i>60.0</i>	<i>60-112</i>			
Matrix Spike (BZJ0760-MS1) Source: 16J0614-01 Prepared: 10/26/2016 Analyzed: 10/28/2016										
2,4,5-T	0.611	0.500	ug/L	0.556	BLOD	110	53-144			
2,4,5-TP (Silvex)	0.611	0.500	ug/L	0.556	BLOD	110	52-129			
2,4-D	0.611	0.500	ug/L	0.556	BLOD	110	53-126			
Dinoseb	0.778	0.500	ug/L	0.556	BLOD	140	60-137			M
Pentachlorophenol	0.444	0.500	ug/L	0.556	BLOD	80.0	52-124			
<i>Surr: DCAA (Surr)</i>	<i>1.11</i>		ug/L	<i>1.11</i>		<i>100</i>	<i>60-112</i>			
Matrix Spike Dup (BZJ0760-MSD1) Source: 16J0614-01 Prepared: 10/26/2016 Analyzed: 10/28/2016										
2,4,5-T	0.556	0.500	ug/L	0.556	BLOD	100	53-144	9.52	20	
2,4,5-TP (Silvex)	0.556	0.500	ug/L	0.556	BLOD	100	52-129	9.52	20	

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Organochlorine Herbicides by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZJ0760 - SW3510C										
Matrix Spike Dup (BZJ0760-MSD1)	Source: 16J0614-01			Prepared: 10/26/2016 Analyzed: 10/28/2016						
2,4-D	0.556	0.500	ug/L	0.556	BLOD	100	53-126	9.52	20	
Dinoseb	0.611	0.500	ug/L	0.556	BLOD	110	60-137	24.0	20	P
Pentachlorophenol	0.444	0.500	ug/L	0.556	BLOD	80.0	52-124	0.00	20	
<i>Surr: DCAA (Surr)</i>	<i>0.778</i>		ug/L	<i>1.11</i>		<i>70.0</i>	<i>60-112</i>			

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Wet Chemistry Analysis - Quality Control
Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZJ0729 - No Prep Wet Chem										
Blank (BZJ0729-BLK1)				Prepared & Analyzed: 10/26/2016						
Cyanide	BLOD	0.01	mg/L							
LCS (BZJ0729-BS1)				Prepared & Analyzed: 10/26/2016						
Cyanide	0.24	0.01	mg/L	0.250		95.2	80-120			
LCS Dup (BZJ0729-BSD1)				Prepared & Analyzed: 10/26/2016						
Cyanide	0.24	0.01	mg/L	0.250		97.9	80-120	2.77	20	
Matrix Spike (BZJ0729-MS1)				Source: 16J0475-09 Prepared & Analyzed: 10/26/2016						
Cyanide	0.23	0.01	mg/L	0.250	BLOD	90.2	80-120			
Matrix Spike (BZJ0729-MS2)				Source: 16J0618-04 Prepared & Analyzed: 10/26/2016						
Cyanide	0.17	0.01	mg/L	0.250	BLOD	66.6	80-120			Cl, M
Matrix Spike Dup (BZJ0729-MSD1)				Source: 16J0475-09 Prepared & Analyzed: 10/26/2016						
Cyanide	0.24	0.01	mg/L	0.250	BLOD	96.7	80-120	6.93	20	
Matrix Spike Dup (BZJ0729-MSD2)				Source: 16J0618-04 Prepared & Analyzed: 10/26/2016						
Cyanide	0.16	0.01	mg/L	0.250	BLOD	64.3	80-120	3.61	20	Cl, M
Batch BZJ0771 - No Prep Wet Chem										
Blank (BZJ0771-BLK1)				Prepared & Analyzed: 10/26/2016						
Chromium, Hexavalent	BLOD	0.005	mg/L							
LCS (BZJ0771-BS1)				Prepared & Analyzed: 10/26/2016						
Chromium, Hexavalent	0.100	0.005	mg/L	0.100		100	80-120			

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Wet Chemistry Analysis - Quality Control
Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BZJ0771 - No Prep Wet Chem										
Matrix Spike (BZJ0771-MS1)										
					Source: 16J0614-01	Prepared & Analyzed: 10/26/2016				
Chromium, Hexavalent	0.097	0.005	mg/L	0.100	BLOD	97.0	80-120			
Matrix Spike Dup (BZJ0771-MSD1)										
					Source: 16J0614-01	Prepared & Analyzed: 10/26/2016				
Chromium, Hexavalent	0.099	0.005	mg/L	0.100	BLOD	99.0	80-120	2.04	20	

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Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 200 Series Methods			Preparation Method: EPA200.2/R2.8		
16J0614-01	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZJ0739	SZJ0920	AJ60158
16J0614-01RE1	50.0 mL / 50.0 mL	EPA200.7 Rev 4.4	BZJ0739	SZJ0940	AJ60163
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 200 Series Methods			Preparation Method: EPA200.8 R5.4		
16J0614-01	50.0 mL / 50.0 mL	EPA200.8 R5.4	BZJ0741	SZJ0878	AJ60153
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			Preparation Method: No Prep Wet Chem		
16J0614-01	6.00 mL / 6.00 mL	SW9012B	BZJ0729	SZJ0807	AJ60144
16J0614-01	100 mL / 100 mL	SW7196A	BZJ0771	SZJ0840	AJ60149
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Organochlorine Pesticides and PCBs by GC/ECD			Preparation Method: SW3510C		
16J0614-01	920 mL / 1.00 mL	SW8081B	BZJ0750	SZJ0900	AI60014
16J0614-01	920 mL / 1.00 mL	SW8082A	BZJ0750	SZK0045	AJ60160
16J0614-01	900 mL / 5.00 mL	SW8151A	BZJ0760	SZJ0968	AJ60095
16J0614-01	920 mL / 1.00 mL	SW8270D	BZJ0826	SZK0055	AH60004
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS			Preparation Method: SW5030B		
16J0614-01	5.00 mL / 5.00 mL	SW8260B	BZJ0788	SZJ0851	AJ60143

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Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS					
16J0614-02	5.00 mL / 5.00 mL	SW8260B	BZJ0788	SZJ0851	AJ60143
Metals (Total) by EPA 200 Series Methods					
16J0614-01	20.0 mL / 20.0 mL	EPA245.1 R3.0	BZJ0839	SZK0012	AK60003

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Certified Analyses included in this Report

Analyte	Certifications
<i>EPA200.7 Rev 4.4 in Non-Potable Water</i>	
Beryllium	VELAP,NC,WVDEP
Cadmium	VELAP,NC,WVDEP
Chromium	VELAP,NC,WVDEP
Copper	VELAP,NC,WVDEP
Lead	VELAP,NC,WVDEP
Nickel	VELAP,NC,WVDEP
Silver	VELAP,NC,WVDEP
Zinc	VELAP,NC,WVDEP
<i>EPA200.8 R5.4 in Non-Potable Water</i>	
Antimony	VELAP
Arsenic	VELAP,WVDEP
Selenium	VELAP,WVDEP
Thallium	VELAP,WVDEP
<i>EPA245.1 R3.0 in Non-Potable Water</i>	
Mercury	VELAP,NC,WVDEP
<i>SW7196A in Non-Potable Water</i>	
Chromium, Hexavalent	VELAP
<i>SW8081B in Non-Potable Water</i>	
4,4'-DDD	NC,VELAP,WVDEP
4,4'-DDE	NC,VELAP,WVDEP
4,4'-DDT	NC,VELAP,WVDEP
Aldrin	NC,VELAP,WVDEP
alpha-BHC	NC,VELAP,WVDEP
beta-BHC	NC,VELAP,WVDEP
Chlordane	NC,VELAP,WVDEP

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Certified Analyses included in this Report

<u>Analyte</u>	<u>Certifications</u>
delta-BHC	NC,VELAP,WVDEP
Dieldrin	NC,VELAP,WVDEP
Endosulfan I	NC,VELAP,WVDEP
Endosulfan II	NC,VELAP,WVDEP
Endosulfan sulfate	NC,VELAP,WVDEP
Endrin	NC,VELAP,WVDEP
Endrin aldehyde	NC,VELAP,WVDEP
gamma-BHC (Lindane)	NC,VELAP,WVDEP
Heptachlor	NC,VELAP,WVDEP
Heptachlor epoxide	NC,VELAP,WVDEP
Methoxychlor	NC,VELAP,WVDEP
Toxaphene	NC,VELAP,WVDEP
<i>SW8082A in Non-Potable Water</i>	
PCB as Aroclor 1016	VELAP,NC,WVDEP
PCB as Aroclor 1221	VELAP,NC,WVDEP
PCB as Aroclor 1232	VELAP,NC,WVDEP
PCB as Aroclor 1242	VELAP,NC,WVDEP
PCB as Aroclor 1248	VELAP,NC,WVDEP
PCB as Aroclor 1254	VELAP,NC,WVDEP
PCB as Aroclor 1260	VELAP,NC,WVDEP
<i>SW8151A in Non-Potable Water</i>	
2,4,5-T	VELAP,NC
2,4,5-TP (Silvex)	VELAP,NC
2,4-D	VELAP,NC
Dinoseb	VELAP,NC
Pentachlorophenol	VELAP,NC
<i>SW8260B in Non-Potable Water</i>	

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Certified Analyses included in this Report

Analyte	Certifications
1,1,1,2-Tetrachloroethane	NC,VELAP,WVDEP
1,1,1-Trichloroethane	NC,VELAP,WVDEP
1,1,2,2-Tetrachloroethane	NC,VELAP,WVDEP
1,1,2-Trichloroethane	NC,VELAP,WVDEP
1,1-Dichloroethane	NC,VELAP,WVDEP
1,1-Dichloroethylene	NC,VELAP,WVDEP
1,1-Dichloropropene	NC,VELAP,WVDEP
1,2,3-Trichlorobenzene	NC,VELAP,WVDEP
1,2,3-Trichloropropane	NC,VELAP,WVDEP
1,2,4-Trichlorobenzene	NC,VELAP,WVDEP
1,2,4-Trimethylbenzene	NC,VELAP,WVDEP
1,2-Dibromo-3-chloropropane (DBCP)	NC,VELAP,WVDEP
1,2-Dibromoethane (EDB)	NC,VELAP,WVDEP
1,2-Dichlorobenzene	NC,VELAP,WVDEP
1,2-Dichloroethane	NC,VELAP,WVDEP
1,2-Dichloropropane	NC,VELAP,WVDEP
1,3,5-Trimethylbenzene	NC,WVDEP
1,3-Dichlorobenzene	NC,VELAP,WVDEP
1,3-Dichloropropane	NC,VELAP,WVDEP
1,4-Dichlorobenzene	NC,VELAP,WVDEP
2,2-Dichloropropane	NC,VELAP,WVDEP
2-Butanone (MEK)	NC,VELAP,WVDEP
2-Chlorotoluene	NC,VELAP,WVDEP
2-Hexanone (MBK)	NC,VELAP,WVDEP
4-Chlorotoluene	NC,VELAP,WVDEP
4-Isopropyltoluene	NC,VELAP,WVDEP
4-Methyl-2-pentanone (MIBK)	NC,VELAP,WVDEP
Acetone	NC,VELAP,WVDEP

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Certified Analyses included in this Report

Analyte	Certifications
Benzene	NC, VELAP, WVDEP
Bromobenzene	NC, VELAP, WVDEP
Bromochloromethane	NC, VELAP, WVDEP
Bromodichloromethane	NC, VELAP, WVDEP
Bromoform	NC, VELAP, WVDEP
Bromomethane	NC, VELAP, WVDEP
Carbon disulfide	NC, VELAP, WVDEP
Carbon tetrachloride	NC, VELAP, WVDEP
Chlorobenzene	NC, VELAP, WVDEP
Chloroethane	NC, VELAP, WVDEP
Chloroform	NC, VELAP, WVDEP
Chloromethane	NC, VELAP, WVDEP
cis-1,2-Dichloroethylene	NC, VELAP, WVDEP
cis-1,3-Dichloropropene	NC, VELAP, WVDEP
Dibromochloromethane	NC, VELAP, WVDEP
Dibromomethane	NC, VELAP, WVDEP
Dichlorodifluoromethane	NC, VELAP, WVDEP
Di-isopropyl ether (DIPE)	NC, VELAP, WVDEP
Ethylbenzene	NC, VELAP, WVDEP
Hexachlorobutadiene	NC, VELAP, WVDEP
Iodomethane	NC, VELAP, WVDEP
Isopropylbenzene	NC, VELAP, WVDEP
m+p-Xylenes	NC, VELAP, WVDEP
Methylene chloride	NC, VELAP, WVDEP
Methyl-t-butyl ether (MTBE)	NC, VELAP, WVDEP
Naphthalene	NC, VELAP, WVDEP
n-Butylbenzene	NC, VELAP, WVDEP
n-Propylbenzene	NC, VELAP, WVDEP

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Certified Analyses included in this Report

Analyte	Certifications
o-Xylene	NC,VELAP,WVDEP
sec-Butylbenzene	NC,VELAP,WVDEP
Styrene	NC,VELAP,WVDEP
tert-Butylbenzene	NC,VELAP,WVDEP
Tetrachloroethylene (PCE)	NC,VELAP,WVDEP
Toluene	NC,VELAP,WVDEP
trans-1,2-Dichloroethylene	NC,VELAP,WVDEP
trans-1,3-Dichloropropene	NC,VELAP,WVDEP
Trichloroethylene	NC,VELAP,WVDEP
Trichlorofluoromethane	NC,VELAP,WVDEP
Vinyl acetate	NC,VELAP,WVDEP
Vinyl chloride	NC,VELAP,WVDEP
Xylenes, Total	NC,VELAP,WVDEP
SW8270D in Non-Potable Water	
1,2,4,5-Tetrachlorobenzene	VELAP,WVDEP,NC
1,2,4-Trichlorobenzene	VELAP,WVDEP,NC
1,2-Dichlorobenzene	VELAP,WVDEP,NC
1,2-Diphenylhydrazine	VELAP,WVDEP,NC
1,3-Dichlorobenzene	VELAP,WVDEP,NC
1,3-Dinitrobenzene	VELAP,WVDEP,NC
1,4-Dichlorobenzene	VELAP,WVDEP,NC
1-Naphthylamine	VELAP,WVDEP,NC
2,3,4,6-Tetrachlorophenol	VELAP,WVDEP,NC
2,4,5-Trichlorophenol	VELAP,WVDEP,NC
2,4,6-Trichlorophenol	VELAP,WVDEP,NC
2,4-Dichlorophenol	VELAP,WVDEP,NC
2,4-Dimethylphenol	VELAP,WVDEP,NC
2,4-Dinitrophenol	VELAP,WVDEP,NC

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Certified Analyses included in this Report

Analyte	Certifications
2,4-Dinitrotoluene	VELAP,WVDEP,NC
2,6-Dichlorophenol	VELAP,WVDEP,NC
2,6-Dinitrotoluene	VELAP,WVDEP,NC
2-Chloronaphthalene	VELAP,WVDEP,NC
2-Chlorophenol	VELAP,WVDEP,NC
2-Methylnaphthalene	VELAP,WVDEP,NC
2-Naphthylamine	VELAP,WVDEP,NC
2-Nitroaniline	VELAP,WVDEP,NC
2-Nitrophenol	VELAP,WVDEP,NC
3,3'-Dichlorobenzidine	VELAP,WVDEP,NC
3-Methylcholanthrene	VELAP,WVDEP,NC
3-Nitroaniline	VELAP,WVDEP,NC
4,6-Dinitro-2-methylphenol	VELAP,WVDEP,NC
4-Aminobiphenyl	VELAP,WVDEP,NC
4-Bromophenyl phenyl ether	VELAP,WVDEP,NC
4-Chloroaniline	VELAP,WVDEP,NC
4-Chlorophenyl phenyl ether	VELAP,WVDEP,NC
4-Nitroaniline	VELAP,WVDEP,NC
4-Nitrophenol	VELAP,WVDEP,NC
7,12-Dimethylbenz (a) anthracene	VELAP,WVDEP,NC
Acenaphthene	VELAP,WVDEP,NC
Acenaphthylene	VELAP,WVDEP,NC
Acetophenone	VELAP,WVDEP,NC
Aniline	VELAP,WVDEP,NC
Anthracene	VELAP,WVDEP,NC
Benzidine	VELAP,WVDEP,NC
Benzo (a) anthracene	VELAP,WVDEP,NC
Benzo (a) pyrene	VELAP,WVDEP,NC

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Certified Analyses included in this Report

Analyte	Certifications
Benzo (b) fluoranthene	VELAP,WVDEP,NC
Benzo (g,h,i) perylene	VELAP,WVDEP,NC
Benzo (k) fluoranthene	VELAP,WVDEP,NC
Benzoic acid	VELAP,WVDEP,NC
Benzyl alcohol	VELAP,WVDEP,NC
bis (2-Chloroethoxy) methane	VELAP,WVDEP,NC
bis (2-Chloroethyl) ether	VELAP,WVDEP,NC
2,2'-Oxybis (1-chloropropane)	VELAP,WVDEP,NC
bis (2-Ethylhexyl) phthalate	VELAP,WVDEP,NC
Butyl benzyl phthalate	VELAP,WVDEP,NC
Chrysene	VELAP,WVDEP,NC
Dibenz (a,h) anthracene	VELAP,WVDEP,NC
Dibenz (a,j) acridine	VELAP,WVDEP,NC
Dibenzofuran	VELAP,WVDEP,NC
Diethyl phthalate	VELAP,WVDEP,NC
Dimethyl phthalate	VELAP,WVDEP,NC
Di-n-butyl phthalate	VELAP,WVDEP,NC
Di-n-octyl phthalate	VELAP,WVDEP,NC
Diphenylamine	VELAP,WVDEP,NC
Ethyl methanesulfonate	VELAP,WVDEP,NC
Fluoranthene	VELAP,WVDEP,NC
Fluorene	VELAP,WVDEP,NC
Hexachlorobenzene	VELAP,WVDEP,NC
Hexachlorobutadiene	VELAP,WVDEP,NC
Hexachlorocyclopentadiene	VELAP,WVDEP,NC
Hexachloroethane	VELAP,WVDEP,NC
Indeno (1,2,3-cd) pyrene	VELAP,WVDEP,NC
Isophorone	VELAP,WVDEP,NC

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Certified Analyses included in this Report

Analyte	Certifications
m+p-Cresols	VELAP,WVDEP,NC
Methyl methanesulfonate	VELAP,WVDEP,NC
Naphthalene	VELAP,WVDEP,NC
Nitrobenzene	VELAP,WVDEP,NC
n-Nitrosodimethylamine	VELAP,WVDEP,NC
n-Nitrosodi-n-butylamine	VELAP,WVDEP,NC
n-Nitrosodi-n-propylamine	VELAP,WVDEP,NC
n-Nitrosodiphenylamine	VELAP,WVDEP,NC
n-Nitrosopiperidine	VELAP,WVDEP,NC
o+m+p-Cresols	WVDEP,NC
o-Cresol	VELAP,WVDEP,NC
p-(Dimethylamino) azobenzene	VELAP,WVDEP,NC
p-Chloro-m-cresol	VELAP,WVDEP,NC
Pentachloronitrobenzene (quintozene)	VELAP,WVDEP,NC
Pentachlorophenol	VELAP,WVDEP,NC
Phenacetin	VELAP,WVDEP,NC
Phenanthrene	VELAP,WVDEP,NC
Phenol	VELAP,WVDEP,NC
Pronamide	VELAP,WVDEP,NC
Pyrene	VELAP,WVDEP,NC
Pyridine	VELAP,WVDEP,NC
SW9012B in Non-Potable Water	
Cyanide	VELAP

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gas Works
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Code	Description	Cert Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2017
NC	North Carolina DENR	495	12/31/2017
PADEP	NELAC-Pennsylvania	001	10/31/2017
VELAP Certificate #4337	NELAC-Virginia Certificate #9475	460021	06/14/2018
WVDEP	West Virginia DEP	350	11/30/2017

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: Fulton Gas Works
Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Qualifiers and Definitions

C	Continuing calibration verification response for this analyte is outside specifications.
Cl	Residual Chlorine or other oxidizing agent was detected in the container used to analyze this sample.
E	Estimated concentration, outside calibration range
J	The reported result is an estimated value.
L	LCS recovery is outside of established acceptance limits
M	Matrix spike recovery is outside established acceptance limits
M4	MS/MSD was not spiked
P	Duplicate analysis does not meet the acceptance criteria for precision
S	Surrogate recovery was outside acceptance criteria
RPD	Relative Percent Difference
Qual	Qualifiers
-RE	Denotes sample was re-analyzed
LOD	Limit of Detection
BLOD	Below Limit of Detection
LOQ	Limit of Quantitation
DF	Dilution Factor
TIC	Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.
PCBs, Total	Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.



1941 REYMET ROAD
 RICHMOND, VIRGINIA 23237
 (804) 358-8295 PHONE
 (804)358-8297 FAX

Chain of Custody
 Form #: D1331
 Rev. 1.0
 Effective: Feb 14, 2014

CHAIN OF CUSTODY

PAGE 1 OF

COMPANY NAME: <u>Timmons Group</u>	INVOICE TO: <u>John Russell</u>	PROJECT NAME/Quote #: <u>Fulton Gas Works</u>
CONTACT: <u>Julia Campus</u>	INVOICE CONTACT: <u>John Russell</u>	SITE NAME:
ADDRESS: <u>1001 Boniders Pkwy Ste 300</u>	INVOICE ADDRESS: <u>Same</u>	PROJECT NUMBER: <u>36156.015</u>
PHONE #: <u>804 201 1549</u>	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL: <u>julia.campus@timmons.com</u>	Pretreatment Program:

Is sample for compliance reporting? YES NO YES Is sample from a chlorinated supply? YES NO NO PWS I.D. #:

SAMPLER NAME (PRINT): Julia Campus SAMPLER SIGNATURE: Julia Campus Turn Around Time: 5 Day(s)

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE)							COMMENTS
											PCB	Pesticides	herbicides	SVOCs	PPL METALS/HNO3	CN/NaOH	Hex Cr	
1) <u>East Main Well 1</u>	<input checked="" type="checkbox"/>					<u>10/25</u>	<u>12:00</u>		<u>GW</u>	<u>10</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
2)																		
3)																		
4)																		
5)																		
6)																		
7)																		
8)																		
9)																		
10)																		<u>On Ice</u> <u>No Seal</u>

RELINQUISHED: <u>[Signature]</u> DATE / TIME: <u>10/25/16 15:45</u>	RECEIVED: <u>[Signature]</u> DATE / TIME: <u>10/25/16 15:47</u>	QC Data Package	LAB USE ONLY	COOLER TEMP <u>9.1</u> °C
RELINQUISHED:	RECEIVED:	Level I <input type="checkbox"/>	TG	16J0614
RELINQUISHED:	RECEIVED:	Level II <input type="checkbox"/>	Fulton Gasworks	
RELINQUISHED:	RECEIVED:	Level III <input type="checkbox"/>	Recd: 10/25/2016	Due: 11/01/2016
RELINQUISHED:	RECEIVED:	Level IV <input type="checkbox"/>		



Sample Preservation Log

Sample Preservation Log
 Form #: F1301
 Rev # 6.0
 Effective: Aug 31, 2016
 Page 1 of 1

Order ID 16J0614

Date Performed: 10/25/16

Analyst Performing Check: 8

P/A = Present/Absent

Sample ID	Container ID	Metals		Cyanide		Sulfide		Ammonia		TKN		Phos, Tot		NO3+NO2		DRO		Pesticide (8081/608)		SVOC (8270/625)		P&B					
		pH as Received		pH as Received		pH as Received		pH as Received		pH as Received		pH as Received		pH as Received		pH as Received		Res.Cl as Received		Res.Cl as Received		pH as Received		pH as Received			
		< 2	Other	Final pH (If adjust.)	> 12	Other	Final pH (If adjust.)	> 9	Other	Final pH (If adjust.)	< 2	Other	Final pH (If adjust.)	< 2	Other	Final pH (If adjust.)	< 2	Other	Final pH (If adjust.)	Present	Absent	Present	Absent	Res.Cl P/A (If adjust.)	Other	Final pH (If adjust.)	Other
01	A																		Y		Y		Y				
01	M		Y																								
01	N				Y																						

NaOH ID: _____
 H2SO4 ID: _____
 HCL ID: _____

HNO3 ID: _____
 Na2S2O3 ID: _____
 Na2SO3 ID: _____

CrVI preserved date/time: 25 Oct 2016 / 17.08 Analyst Initials: TL
 Buffer Sol'n ID: 6100659
 1N NaOH ID: _____ 5N NaOH: 6100502

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED
 F1301 Sample Preservation Log 6_0.xls

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: Fulton Gas Works
 Submitted To: Julia Campus

Date Issued: 11/22/2017 11:42:48AM

Sample Conditions Checklist

Samples Received at:	9.10°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	Yes
Are all volatile organic and TOX containers free of headspace?	Yes
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	Yes
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

As per Julia Campus TAT is 5 day. Trip blanks (10-21-16 @ 15.45) were received and added to the work-order. STT 10-25-16 @ 17:00



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Certificate of Analysis

Final Report

Laboratory Order ID 17K0409

Client Name: Timmons Group
1001 Boulders Parkway, Suite 300
Richmond, VA 23225

Date Received: November 13, 2017 16:11

Date Issued: November 20, 2017 17:06

Project Number: [none]

Submitted To: Julia Campus

Purchase Order:

Client Site I.D.: East Main Street Parcels

Enclosed are the results of analyses for samples received by the laboratory on 11/13/2017 16:11. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in black ink that reads "Ted Soyars".

Ted Soyars
Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Air Water & Soil Laboratories, Inc.





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Certificate of Analysis

Final Report

Client Name: Timmons Group
1001 Boulders Parkway, Suite 300
Richmond VA, 23225

Date Issued: 11/20/2017 17:06

Submitted To: Julia Campus
Client Site I.D.: East Main Street Parcels

Project Number: [none]
Purchase Order:

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 17K0409

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-28.1	17K0409-01	Ground Water	11/13/2017 13:00	11/13/2017 16:11
MW-29	17K0409-02	Ground Water	11/13/2017 14:45	11/13/2017 16:11
Trip Blank	17K0409-03	Ground Water	11/13/2017 13:00	11/13/2017 16:11



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Certificate of Analysis

Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 11/20/2017 17:06
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Laboratory Order ID: 17K0409

Analytical Results

Sample I.D. MW-28.1 Laboratory Sample ID: 17K0409-01

Grab Date/Time: 11/13/2017 13:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Silver	01	SW6010C	<0.0100 mg/L		0.0100	1	11/14/17 15:01	11/15/17 14:57	BG
Aluminum	01	SW6010C	16.8 mg/L		0.0500	1	11/14/17 15:01	11/15/17 14:57	BG
Arsenic	01	SW6020A	13 ug/L		1.0	1	11/14/17 15:00	11/15/17 14:30	BG
Barium	01	SW6010C	0.416 mg/L		0.0100	1	11/14/17 15:01	11/15/17 14:57	BG
Beryllium	01	SW6010C	<0.0040 mg/L		0.0040	1	11/14/17 15:01	11/15/17 14:57	BG
Calcium	01RE1	SW6010C	58.2 mg/L		0.500	10	11/14/17 15:01	11/15/17 17:54	BG
Cadmium	01	SW6010C	0.0042 mg/L		0.0040	1	11/14/17 15:01	11/15/17 14:58	BG
Cobalt	01	SW6010C	0.0217 mg/L		0.0040	1	11/14/17 15:01	11/15/17 14:58	BG
Chromium	01	SW6010C	0.0200 mg/L		0.0100	1	11/14/17 15:01	11/15/17 14:58	BG
Copper	01	SW6010C	<0.0100 mg/L		0.0100	1	11/14/17 15:01	11/15/17 14:57	BG
Iron	01RE1	SW6010C	38.2 mg/L		0.100	10	11/14/17 15:01	11/15/17 17:54	BG
Mercury	01	SW7470A	<0.00020 mg/L		0.00020	1	11/15/17 09:30	11/15/17 14:26	RCV
Potassium	01	SW6010C	13.4 mg/L		0.50	1	11/14/17 15:01	11/16/17 12:26	CGT
Magnesium	01RE1	SW6010C	18.9 mg/L		0.100	10	11/14/17 15:01	11/15/17 17:54	BG
Manganese	01	SW6010C	3.52 mg/L		0.0100	1	11/14/17 15:01	11/15/17 14:57	BG
Sodium	01	SW6010C	32.4 mg/L		0.50	1	11/14/17 15:01	11/16/17 12:26	CGT
Nickel	01	SW6010C	0.0118 mg/L		0.0100	1	11/14/17 15:01	11/15/17 14:58	BG
Lead	01	SW6010C	<0.0100 mg/L		0.0100	1	11/14/17 15:01	11/15/17 14:58	BG
Antimony	01	SW6020A	<1.00 ug/L		1.00	1	11/14/17 15:00	11/15/17 14:30	BG
Selenium	01	SW6020A	3.71 ug/L		1.00	1	11/14/17 15:00	11/15/17 14:30	BG
Thallium	01	SW6020A	<1.00 ug/L		1.00	1	11/14/17 15:00	11/15/17 14:30	BG
Vanadium	01	SW6010C	0.0362 mg/L		0.0100	1	11/14/17 15:01	11/15/17 14:57	BG
Zinc	01	SW6010C	0.0595 mg/L		0.0100	1	11/14/17 15:01	11/15/17 14:58	BG
Volatile Organic Compounds by GCMS									
1,1,1,2-Tetrachloroethane	01	SW8260B	<0.40 ug/L		0.40	1	11/14/17 12:52	11/14/17 12:52	KCS
1,1,1-Trichloroethane	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS



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Certificate of Analysis

Final Report

Client Name: Timmons Group
1001 Boulders Parkway, Suite 300
Richmond VA, 23225

Date Issued: 11/20/2017 17:06

Submitted To: Julia Campus

Project Number: [none]

Client Site I.D.: East Main Street Parcels

Purchase Order:

Laboratory Order ID: 17K0409

Analytical Results

Sample I.D. MW-28.1

Laboratory Sample ID: 17K0409-01

Grab Date/Time: 11/13/2017 13:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Organic Compounds by GCMS									
1,1,2,2-Tetrachloroethane	01	SW8260B	<0.40 ug/L		0.40	1	11/14/17 12:52	11/14/17 12:52	KCS
1,1,2-Trichloroethane	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,1-Dichloroethane	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,1-Dichloroethylene	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,1-Dichloropropene	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,2,3-Trichlorobenzene	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,2,3-Trichloropropane	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,2,4-Trichlorobenzene	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,2,4-Trimethylbenzene	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,2-Dibromo-3-chloropropane (DBCP)	01	SW8260B	<4.00 ug/L		4.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,2-Dibromoethane (EDB)	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,2-Dichlorobenzene	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,2-Dichloroethane	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,2-Dichloropropane	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,3,5-Trimethylbenzene	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,3-Dichlorobenzene	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,3-Dichloropropane	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
1,4-Dichlorobenzene	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
2,2-Dichloropropane	01	SW8260B	<2.00 ug/L		2.00	1	11/14/17 12:52	11/14/17 12:52	KCS
2-Butanone (MEK)	01	SW8260B	<10.0 ug/L		10.0	1	11/14/17 12:52	11/14/17 12:52	KCS
2-Chlorotoluene	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
2-Hexanone (MBK)	01	SW8260B	<5.00 ug/L		5.00	1	11/14/17 12:52	11/14/17 12:52	KCS
4-Chlorotoluene	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
4-Isopropyltoluene	01	SW8260B	<1.00 ug/L		1.00	1	11/14/17 12:52	11/14/17 12:52	KCS
4-Methyl-2-pentanone (MIBK)	01	SW8260B	<5.00 ug/L		5.00	1	11/14/17 12:52	11/14/17 12:52	KCS
Acetone	01	SW8260B	<10.0 ug/L		10.0	1	11/14/17 12:52	11/14/17 12:52	KCS



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Certificate of Analysis

Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 11/20/2017 17:06
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Laboratory Order ID: 17K0409

Analytical Results

Sample I.D. MW-28.1 Laboratory Sample ID: 17K0409-01

Grab Date/Time: 11/13/2017 13:00

Parameter	Samp ID	Method	Result	Reporting Qual	Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Organic Compounds by GCMS									
Benzene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Bromobenzene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Bromochloromethane	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Bromodichloromethane	01	SW8260B	<0.50 ug/L	0.50	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Bromoform	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Bromomethane	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Carbon disulfide	01	SW8260B	<10.0 ug/L	10.0	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Carbon tetrachloride	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Chlorobenzene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Chloroethane	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Chloroform	01	SW8260B	<0.50 ug/L	0.50	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Chloromethane	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
cis-1,2-Dichloroethylene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
cis-1,3-Dichloropropene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Dibromochloromethane	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Dibromomethane	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Dichlorodifluoromethane	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Di-isopropyl ether (DIPE)	01	SW8260B	<5.00 ug/L	5.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Ethylbenzene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Hexachlorobutadiene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Iodomethane	01	SW8260B	<10.0 ug/L	10.0	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Isopropylbenzene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
m+p-Xylenes	01	SW8260B	<2.00 ug/L	2.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Methylene chloride	01	SW8260B	<4.00 ug/L	4.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Methyl-t-butyl ether (MTBE)	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Naphthalene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS



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Certificate of Analysis

Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 11/20/2017 17:06
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Laboratory Order ID: 17K0409

Analytical Results

Sample I.D. MW-28.1 Laboratory Sample ID: 17K0409-01

Grab Date/Time: 11/13/2017 13:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Organic Compounds by GCMS									
n-Butylbenzene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
n-Propylbenzene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
o-Xylene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
sec-Butylbenzene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Styrene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
tert-Butylbenzene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Tetrachloroethylene (PCE)	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Toluene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
trans-1,2-Dichloroethylene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
trans-1,3-Dichloropropene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Trichloroethylene	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Trichlorofluoromethane	01	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Vinyl acetate	01	SW8260B	<10.0 ug/L	10.0	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Vinyl chloride	01	SW8260B	<0.50 ug/L	0.50	1	1	11/14/17 12:52	11/14/17 12:52	KCS
Xylenes, Total	01	SW8260B	<3.00 ug/L	3.00	1	1	11/14/17 12:52	11/14/17 12:52	KCS
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	01	SW8260B	110 %		70-120		11/14/17 12:52	11/14/17 12:52	KCS
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	01	SW8260B	87.3 %		75-120		11/14/17 12:52	11/14/17 12:52	KCS
<i>Surr: Dibromofluoromethane (Surr)</i>	01	SW8260B	106 %		80-119		11/14/17 12:52	11/14/17 12:52	KCS
<i>Surr: Toluene-d8 (Surr)</i>	01	SW8260B	103 %		85-120		11/14/17 12:52	11/14/17 12:52	KCS
Semivolatile Organic Compounds by GCMS									
1,2,4,5-Tetrachlorobenzene	01	SW8270D	<11.1 ug/L	11.1	1	1	11/16/17 09:40	11/17/17 06:35	SKS
1,2,4-Trichlorobenzene	01	SW8270D	<11.1 ug/L	11.1	1	1	11/16/17 09:40	11/17/17 06:35	SKS
1,2-Dichlorobenzene	01	SW8270D	<11.1 ug/L	11.1	1	1	11/16/17 09:40	11/17/17 06:35	SKS
1,2-Diphenylhydrazine	01	SW8270D	<11.1 ug/L	11.1	1	1	11/16/17 09:40	11/17/17 06:35	SKS



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Certificate of Analysis

Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 11/20/2017 17:06
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Laboratory Order ID: 17K0409

Analytical Results

Sample I.D. MW-28.1 **Laboratory Sample ID:** 17K0409-01

Grab Date/Time: 11/13/2017 13:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS									
1,3-Dichlorobenzene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
1,3-Dinitrobenzene	01	SW8270D	<2.78 ug/L		2.78	1	11/16/17 09:40	11/17/17 06:35	SKS
1,4-Dichlorobenzene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
1-Naphthylamine	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
2,3,4,6-Tetrachlorophenol	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
2,4,5-Trichlorophenol	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
2,4,6-Trichlorophenol	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
2,4-Dichlorophenol	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
2,4-Dimethylphenol	01	SW8270D	<0.56 ug/L		0.56	1	11/16/17 09:40	11/17/17 06:35	SKS
2,4-Dinitrophenol	01	SW8270D	<55.6 ug/L		55.6	1	11/16/17 09:40	11/17/17 06:35	SKS
2,4-Dinitrotoluene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
2,6-Dichlorophenol	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
2,6-Dinitrotoluene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
2-Chloronaphthalene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
2-Chlorophenol	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
2-Methylnaphthalene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
2-Naphthylamine	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
2-Nitroaniline	01	SW8270D	<22.2 ug/L		22.2	1	11/16/17 09:40	11/17/17 06:35	SKS
2-Nitrophenol	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
3,3'-Dichlorobenzidine	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
3-Methylcholanthrene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
3-Nitroaniline	01	SW8270D	<22.2 ug/L		22.2	1	11/16/17 09:40	11/17/17 06:35	SKS
4,6-Dinitro-2-methylphenol	01	SW8270D	<55.6 ug/L		55.6	1	11/16/17 09:40	11/17/17 06:35	SKS
4-Aminobiphenyl	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
4-Bromophenyl phenyl ether	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
4-Chloroaniline	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS



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Certificate of Analysis

Final Report

Client Name: Timmons Group
1001 Boulders Parkway, Suite 300
Richmond VA, 23225

Date Issued: 11/20/2017 17:06

Submitted To: Julia Campus

Project Number: [none]

Client Site I.D.: East Main Street Parcels

Purchase Order:

Laboratory Order ID: 17K0409

Analytical Results

Sample I.D. MW-28.1

Laboratory Sample ID: 17K0409-01

Grab Date/Time: 11/13/2017 13:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS									
4-Chlorophenyl phenyl ether	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
4-Nitroaniline	01	SW8270D	<22.2 ug/L		22.2	1	11/16/17 09:40	11/17/17 06:35	SKS
4-Nitrophenol	01	SW8270D	<55.6 ug/L		55.6	1	11/16/17 09:40	11/17/17 06:35	SKS
7,12-Dimethylbenz (a) anthracene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Acenaphthene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Acenaphthylene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Acetophenone	01	SW8270D	<22.2 ug/L		22.2	1	11/16/17 09:40	11/17/17 06:35	SKS
Aniline	01	SW8270D	<55.6 ug/L		55.6	1	11/16/17 09:40	11/17/17 06:35	SKS
Anthracene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Benzidine	01	SW8270D	<55.6 ug/L		55.6	1	11/16/17 09:40	11/17/17 06:35	SKS
Benzo (a) anthracene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Benzo (a) pyrene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Benzo (b) fluoranthene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Benzo (g,h,i) perylene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Benzo (k) fluoranthene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Benzoic acid	01	SW8270D	<55.6 ug/L		55.6	1	11/16/17 09:40	11/17/17 06:35	SKS
Benzyl alcohol	01	SW8270D	<22.2 ug/L		22.2	1	11/16/17 09:40	11/17/17 06:35	SKS
bis (2-Chloroethoxy) methane	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
bis (2-Chloroethyl) ether	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
2,2'-Oxybis (1-chloropropane)	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
bis (2-Ethylhexyl) phthalate	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Butyl benzyl phthalate	01	SW8270D	<11.1 ug/L	C	11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Chrysene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Dibenz (a,h) anthracene	01	SW8270D	<11.1 ug/L	C	11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Dibenz (a,j) acridine	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS



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Certificate of Analysis

Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 11/20/2017 17:06
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Laboratory Order ID: 17K0409

Analytical Results

Sample I.D. MW-28.1 **Laboratory Sample ID:** 17K0409-01

Grab Date/Time: 11/13/2017 13:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS									
Dibenzofuran	01	SW8270D	<5.56 ug/L		5.56	1	11/16/17 09:40	11/17/17 06:35	SKS
Diethyl phthalate	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Dimethyl phthalate	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Di-n-butyl phthalate	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Di-n-octyl phthalate	01	SW8270D	<11.1 ug/L	C	11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Diphenylamine	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Ethyl methanesulfonate	01	SW8270D	<22.2 ug/L		22.2	1	11/16/17 09:40	11/17/17 06:35	SKS
Fluoranthene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Fluorene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Hexachlorobenzene	01	SW8270D	<1.11 ug/L		1.11	1	11/16/17 09:40	11/17/17 06:35	SKS
Hexachlorobutadiene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Hexachlorocyclopentadiene	01	SW8270D	<11.1 ug/L	C	11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Hexachloroethane	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Indeno (1,2,3-cd) pyrene	01	SW8270D	<11.1 ug/L	C	11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Isophorone	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
m+p-Cresols	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Methyl methanesulfonate	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Naphthalene	01	SW8270D	<5.56 ug/L		5.56	1	11/16/17 09:40	11/17/17 06:35	SKS
Nitrobenzene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
n-Nitrosodimethylamine	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
n-Nitrosodi-n-butylamine	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
n-Nitrosodi-n-propylamine	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
n-Nitrosodiphenylamine	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
n-Nitrosopiperidine	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
o+m+p-Cresols	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
o-Cresol	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS



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Certificate of Analysis

Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 11/20/2017 17:06
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Laboratory Order ID: 17K0409

Analytical Results

Sample I.D. MW-28.1 **Laboratory Sample ID:** 17K0409-01

Grab Date/Time: 11/13/2017 13:00

Parameter	Samp ID	Method	Result	Reporting Qual	Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS									
p-(Dimethylamino) azobenzene	01	SW8270D	<2.78 ug/L		2.78	1	11/16/17 09:40	11/17/17 06:35	SKS
p-Chloro-m-cresol	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Pentachloronitrobenzene (quintozene)	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Pentachlorophenol	01	SW8270D	<22.2 ug/L	C	22.2	1	11/16/17 09:40	11/17/17 06:35	SKS
Phenacetin	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Phenanthrene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Phenol	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Pronamide	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Pyrene	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
Pyridine	01	SW8270D	<11.1 ug/L		11.1	1	11/16/17 09:40	11/17/17 06:35	SKS
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	01	SW8270D	39.2 %		20-86		11/16/17 09:40	11/17/17 06:35	SKS
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	01	SW8270D	44.6 %		23-87		11/16/17 09:40	11/17/17 06:35	SKS
<i>Surr: 2-Fluorophenol (Surr)</i>	01	SW8270D	21.5 %		10-52		11/16/17 09:40	11/17/17 06:35	SKS
<i>Surr: Nitrobenzene-d5 (Surr)</i>	01	SW8270D	42.8 %		10-98.5		11/16/17 09:40	11/17/17 06:35	SKS
<i>Surr: Phenol-d5 (Surr)</i>	01	SW8270D	17.6 %		5-33		11/16/17 09:40	11/17/17 06:35	SKS
<i>Surr: p-Terphenyl-d14 (Surr)</i>	01	SW8270D	71.5 %		27-133		11/16/17 09:40	11/17/17 06:35	SKS
Semivolatile Hydrocarbons by GC									
TPH-Semi-Volatiles (DRO)	01	SW8015C	<0.549 mg/L		0.549	1	11/15/17 13:45	11/16/17 00:56	CVH
<i>Surr: Pentacosane (Surr)</i>	01	SW8015C	71.4 %		40-160		11/15/17 13:45	11/16/17 00:56	CVH
TPH-Semi-Volatiles (ORO)	01	SW8015C	<1.1 mg/L		1.1	1	11/15/17 13:45	11/16/17 14:29	CVH
Organochlorine Pesticides and PCBs by GC/ECD									
4,4'-DDD	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
4,4'-DDE	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
4,4'-DDT	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH



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Certificate of Analysis

Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 11/20/2017 17:06
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Laboratory Order ID: 17K0409

Analytical Results

Sample I.D. MW-28.1 Laboratory Sample ID: 17K0409-01

Grab Date/Time: 11/13/2017 13:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Organochlorine Pesticides and PCBs by GC/ECD									
Aldrin	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
alpha-BHC	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
beta-BHC	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
Chlordane	01	SW8081B	<0.222 ug/L		0.222	1	11/15/17 09:25	11/15/17 20:26	LBH
delta-BHC	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
Dieldrin	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
Endosulfan I	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
Endosulfan II	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
Endosulfan sulfate	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
Endrin	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
Endrin aldehyde	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
gamma-BHC (Lindane)	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
Heptachlor	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
Heptachlor epoxide	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
Methoxychlor	01	SW8081B	<0.056 ug/L		0.056	1	11/15/17 09:25	11/15/17 20:26	LBH
Toxaphene	01	SW8081B	<1.11 ug/L		1.11	1	11/15/17 09:25	11/15/17 20:26	LBH
<hr style="border-top: 1px dashed black;"/>									
Surr: TCMX	01	SW8081B	55.0 %		18-112		11/15/17 09:25	11/15/17 20:26	LBH
Surr: DCB	01	SW8081B	50.0 %		27-131		11/15/17 09:25	11/15/17 20:26	LBH
Organochlorine Herbicides by GC/ECD									
2,4,5-T	01	SW8151A	<0.500 ug/L		0.500	1	11/14/17 14:28	11/16/17 19:10	CVH
2,4,5-TP (Silvex)	01	SW8151A	<0.500 ug/L		0.500	1	11/14/17 14:28	11/16/17 19:10	CVH
2,4-D	01	SW8151A	<0.500 ug/L		0.500	1	11/14/17 14:28	11/16/17 19:10	CVH
Dinoseb	01	SW8151A	<0.500 ug/L		0.500	1	11/14/17 14:28	11/16/17 19:10	CVH
Pentachlorophenol	01	SW8151A	<0.500 ug/L		0.500	1	11/14/17 14:28	11/16/17 19:10	CVH
<hr style="border-top: 1px dashed black;"/>									
Surr: DCAA (Surr)	01	SW8151A	90.0 %		60-112		11/14/17 14:28	11/16/17 19:10	CVH



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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Laboratory Order ID: 17K0409

Analytical Results

Sample I.D. MW-28.1	Laboratory Sample ID: 17K0409-01
Grab Date/Time: 11/13/2017 13:00	

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Wet Chemistry Analysis									
Cyanide	01	SM22 4500CNE-2011	<0.010 mg/L	Cl	0.010	1	11/16/17 13:49	11/16/17 13:49	BBP
Chromium, Hexavalent	01	SW7196A	<0.050 mg/L	M3	0.050	1	11/14/17 11:59	11/14/17 11:59	CGT



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Certificate of Analysis

Final Report

Client Name: Timmons Group
 1001 Boulders Parkway, Suite 300
 Richmond VA, 23225

Date Issued: 11/20/2017 17:06

Submitted To: Julia Campus

Project Number: [none]

Client Site I.D.: East Main Street Parcels

Purchase Order:

Laboratory Order ID: 17K0409

Analytical Results

Sample I.D. MW-29

Laboratory Sample ID: 17K0409-02

Grab Date/Time: 11/13/2017 14:45

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Silver	02	SW6010C	<0.0100 mg/L		0.0100	1	11/14/17 15:01	11/15/17 15:05	BG
Aluminum	02	SW6010C	0.0821 mg/L		0.0500	1	11/14/17 15:01	11/15/17 15:05	BG
Arsenic	02	SW6020A	13 ug/L		1.0	1	11/14/17 15:00	11/15/17 14:34	BG
Barium	02	SW6010C	0.128 mg/L		0.0100	1	11/14/17 15:01	11/15/17 15:05	BG
Beryllium	02	SW6010C	<0.0040 mg/L		0.0040	1	11/14/17 15:01	11/15/17 15:05	BG
Calcium	02RE1	SW6010C	63.2 mg/L		0.500	10	11/14/17 15:01	11/15/17 17:56	BG
Cadmium	02	SW6010C	<0.0040 mg/L		0.0040	1	11/14/17 15:01	11/15/17 15:05	BG
Cobalt	02	SW6010C	<0.0040 mg/L		0.0040	1	11/14/17 15:01	11/15/17 15:05	BG
Chromium	02	SW6010C	<0.0100 mg/L		0.0100	1	11/14/17 15:01	11/15/17 15:05	BG
Copper	02	SW6010C	<0.0100 mg/L		0.0100	1	11/14/17 15:01	11/15/17 15:05	BG
Iron	02	SW6010C	14.8 mg/L		0.0100	1	11/14/17 15:01	11/15/17 15:05	BG
Potassium	02	SW6010C	28.0 mg/L		0.50	1	11/14/17 15:01	11/16/17 12:31	CGT
Magnesium	02	SW6010C	15.3 mg/L		0.0100	1	11/14/17 15:01	11/15/17 15:05	BG
Manganese	02	SW6010C	0.523 mg/L		0.0100	1	11/14/17 15:01	11/15/17 15:05	BG
Sodium	02	SW6010C	45.9 mg/L		0.50	1	11/14/17 15:01	11/16/17 12:31	CGT
Nickel	02	SW6010C	<0.0100 mg/L		0.0100	1	11/14/17 15:01	11/15/17 15:05	BG
Lead	02	SW6010C	<0.0100 mg/L		0.0100	1	11/14/17 15:01	11/15/17 15:05	BG
Antimony	02	SW6020A	<1.00 ug/L		1.00	1	11/14/17 15:00	11/15/17 14:34	BG
Selenium	02	SW6020A	<1.00 ug/L		1.00	1	11/14/17 15:00	11/15/17 14:34	BG
Thallium	02	SW6020A	<1.00 ug/L		1.00	1	11/14/17 15:00	11/15/17 14:34	BG
Vanadium	02	SW6010C	<0.0100 mg/L		0.0100	1	11/14/17 15:01	11/15/17 15:05	BG
Zinc	02	SW6010C	0.0116 mg/L		0.0100	1	11/14/17 15:01	11/15/17 15:05	BG



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Certificate of Analysis

Final Report

Client Name: Timmons Group
1001 Boulders Parkway, Suite 300
Richmond VA, 23225

Date Issued: 11/20/2017 17:06

Submitted To: Julia Campus

Project Number: [none]

Client Site I.D.: East Main Street Parcels

Purchase Order:

Laboratory Order ID: 17K0409

Analytical Results

Sample I.D. Trip Blank

Laboratory Sample ID: 17K0409-03

Grab Date/Time: 11/13/2017 13:00

Parameter	Samp ID	Method	Result	Reporting Qual	Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Organic Compounds by GCMS									
1,1,1,2-Tetrachloroethane	03	SW8260B	<0.40 ug/L	0.40	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,1,1-Trichloroethane	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,1,2,2-Tetrachloroethane	03	SW8260B	<0.40 ug/L	0.40	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,1,2-Trichloroethane	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,1-Dichloroethane	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,1-Dichloroethylene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,1-Dichloropropene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,2,3-Trichlorobenzene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,2,3-Trichloropropane	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,2,4-Trichlorobenzene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,2,4-Trimethylbenzene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,2-Dibromo-3-chloropropane (DBCP)	03	SW8260B	<4.00 ug/L	4.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,2-Dibromoethane (EDB)	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,2-Dichlorobenzene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,2-Dichloroethane	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,2-Dichloropropane	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,3,5-Trimethylbenzene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,3-Dichlorobenzene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,3-Dichloropropane	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
1,4-Dichlorobenzene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
2,2-Dichloropropane	03	SW8260B	<2.00 ug/L	2.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
2-Butanone (MEK)	03	SW8260B	<10.0 ug/L	10.0	1	1	11/14/17 12:29	11/14/17 12:29	KCS
2-Chlorotoluene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
2-Hexanone (MBK)	03	SW8260B	<5.00 ug/L	5.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
4-Chlorotoluene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
4-Isopropyltoluene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS



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Certificate of Analysis

Final Report

Client Name: Timmons Group
1001 Boulders Parkway, Suite 300
Richmond VA, 23225

Date Issued: 11/20/2017 17:06

Submitted To: Julia Campus

Project Number: [none]

Client Site I.D.: East Main Street Parcels

Purchase Order:

Laboratory Order ID: 17K0409

Analytical Results

Sample I.D. Trip Blank

Laboratory Sample ID: 17K0409-03

Grab Date/Time: 11/13/2017 13:00

Parameter	Samp ID	Method	Result	Reporting Qual	Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Organic Compounds by GCMS									
4-Methyl-2-pentanone (MIBK)	03	SW8260B	<5.00 ug/L	5.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Acetone	03	SW8260B	<10.0 ug/L	10.0	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Benzene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Bromobenzene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Bromochloromethane	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Bromodichloromethane	03	SW8260B	<0.50 ug/L	0.50	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Bromoform	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Bromomethane	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Carbon disulfide	03	SW8260B	<10.0 ug/L	10.0	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Carbon tetrachloride	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Chlorobenzene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Chloroethane	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Chloroform	03	SW8260B	<0.50 ug/L	0.50	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Chloromethane	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
cis-1,2-Dichloroethylene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
cis-1,3-Dichloropropene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Dibromochloromethane	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Dibromomethane	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Dichlorodifluoromethane	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Di-isopropyl ether (DIPE)	03	SW8260B	<5.00 ug/L	5.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Ethylbenzene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Hexachlorobutadiene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Iodomethane	03	SW8260B	<10.0 ug/L	10.0	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Isopropylbenzene	03	SW8260B	<1.00 ug/L	1.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
m+p-Xylenes	03	SW8260B	<2.00 ug/L	2.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS
Methylene chloride	03	SW8260B	<4.00 ug/L	4.00	1	1	11/14/17 12:29	11/14/17 12:29	KCS



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Certificate of Analysis

Final Report

Client Name: Timmons Group
1001 Boulders Parkway, Suite 300
Richmond VA, 23225

Date Issued: 11/20/2017 17:06

Submitted To: Julia Campus

Project Number: [none]

Client Site I.D.: East Main Street Parcels

Purchase Order:

Laboratory Order ID: 17K0409

Analytical Results

Sample I.D. Trip Blank

Laboratory Sample ID: 17K0409-03

Grab Date/Time: 11/13/2017 13:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Organic Compounds by GCMS									
Methyl-t-butyl ether (MTBE)	03	SW8260B	<1.00 ug/L	1.00	1	11/14/17 12:29	11/14/17 12:29	KCS	
Naphthalene	03	SW8260B	<1.00 ug/L	1.00	1	11/14/17 12:29	11/14/17 12:29	KCS	
n-Butylbenzene	03	SW8260B	<1.00 ug/L	1.00	1	11/14/17 12:29	11/14/17 12:29	KCS	
n-Propylbenzene	03	SW8260B	<1.00 ug/L	1.00	1	11/14/17 12:29	11/14/17 12:29	KCS	
o-Xylene	03	SW8260B	<1.00 ug/L	1.00	1	11/14/17 12:29	11/14/17 12:29	KCS	
sec-Butylbenzene	03	SW8260B	<1.00 ug/L	1.00	1	11/14/17 12:29	11/14/17 12:29	KCS	
Styrene	03	SW8260B	<1.00 ug/L	1.00	1	11/14/17 12:29	11/14/17 12:29	KCS	
tert-Butylbenzene	03	SW8260B	<1.00 ug/L	1.00	1	11/14/17 12:29	11/14/17 12:29	KCS	
Tetrachloroethylene (PCE)	03	SW8260B	<1.00 ug/L	1.00	1	11/14/17 12:29	11/14/17 12:29	KCS	
Toluene	03	SW8260B	<1.00 ug/L	1.00	1	11/14/17 12:29	11/14/17 12:29	KCS	
trans-1,2-Dichloroethylene	03	SW8260B	<1.00 ug/L	1.00	1	11/14/17 12:29	11/14/17 12:29	KCS	
trans-1,3-Dichloropropene	03	SW8260B	<1.00 ug/L	1.00	1	11/14/17 12:29	11/14/17 12:29	KCS	
Trichloroethylene	03	SW8260B	<1.00 ug/L	1.00	1	11/14/17 12:29	11/14/17 12:29	KCS	
Trichlorofluoromethane	03	SW8260B	<1.00 ug/L	1.00	1	11/14/17 12:29	11/14/17 12:29	KCS	
Vinyl acetate	03	SW8260B	<10.0 ug/L	10.0	1	11/14/17 12:29	11/14/17 12:29	KCS	
Vinyl chloride	03	SW8260B	<0.50 ug/L	0.50	1	11/14/17 12:29	11/14/17 12:29	KCS	
Xylenes, Total	03	SW8260B	<3.00 ug/L	3.00	1	11/14/17 12:29	11/14/17 12:29	KCS	
Surr: 1,2-Dichloroethane-d4 (Surr)	03	SW8260B	113 %	70-120		11/14/17 12:29	11/14/17 12:29	KCS	
Surr: 4-Bromofluorobenzene (Surr)	03	SW8260B	84.8 %	75-120		11/14/17 12:29	11/14/17 12:29	KCS	
Surr: Dibromofluoromethane (Surr)	03	SW8260B	106 %	80-119		11/14/17 12:29	11/14/17 12:29	KCS	
Surr: Toluene-d8 (Surr)	03	SW8260B	102 %	85-120		11/14/17 12:29	11/14/17 12:29	KCS	



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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Analytical Summary

Preparation Method:

Preparation Method:

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods		Preparation Method: EPA200.2/R2.8			
17K0409-01	50.0 mL / 50.0 mL	SW6010C	BAK0403	SAK0449	AK70088
17K0409-01	50.0 mL / 50.0 mL	SW6010C	BAK0403	SAK0481	AK70093
17K0409-01RE1	50.0 mL / 50.0 mL	SW6010C	BAK0403	SAK0458	AK70088
17K0409-02	50.0 mL / 50.0 mL	SW6010C	BAK0403	SAK0449	AK70088
17K0409-02	50.0 mL / 50.0 mL	SW6010C	BAK0403	SAK0481	AK70093
17K0409-02RE1	50.0 mL / 50.0 mL	SW6010C	BAK0403	SAK0458	AK70088
Metals (Total) by EPA 6000/7000 Series Methods		Preparation Method: EPA200.8 R5.4			
17K0409-01	50.0 mL / 50.0 mL	SW6020A	BAK0405	SAK0500	AK70097
17K0409-02	50.0 mL / 50.0 mL	SW6020A	BAK0405	SAK0500	AK70097
Wet Chemistry Analysis		Preparation Method: No Prep Wet Chem			
17K0409-01	100 mL / 100 mL	SW7196A	BAK0404	SAK0400	AK70081
Wet Chemistry Analysis		Preparation Method: No Prep Wet Chem			
17K0409-01	6.00 mL / 6.00 mL	SM22 4500CNE-2011	BAK0494	SAK0468	AK70094
Organochlorine Herbicides by GC/ECD		Preparation Method: SW3510C			
17K0409-01	900 mL / 5.00 mL	SW8151A	BAK0408	SAK0555	AK70071
Organochlorine Pesticides and PCBs by GC/ECD		Preparation Method: SW3510C			
17K0409-01	900 mL / 1.00 mL	SW8081B	BAK0419	SAK0462	AI70117
Semivolatile Hydrocarbons by GC		Preparation Method: SW3510C			
17K0409-01	910 mL / 1.00 mL	SW8015C	BAK0451	SAK0470	AK70085



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Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Hydrocarbons by GC		Preparation Method: SW3510C			
17K0409-01	900 mL / 1.00 mL	SW8015C	BAK0453	SAK0503	AJ70145
Semivolatile Organic Compounds by GCMS		Preparation Method: SW3510C			
17K0409-01	900 mL / 1.00 mL	SW8270D	BAK0481	SAK0495	AK70079
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS		Preparation Method: SW5030B			
17K0409-01	5.00 mL / 5.00 mL	SW8260B	BAK0424	SAK0430	AK70021
17K0409-03	5.00 mL / 5.00 mL	SW8260B	BAK0424	SAK0430	AK70021
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods		Preparation Method: SW7470A			
17K0409-01	20.0 mL / 20.0 mL	SW7470A	BAK0416	SAK0460	AK70090



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Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0403 - EPA200.2/R2.8

Blank (BAK0403-BLK1)

Prepared: 11/14/2017 Analyzed: 11/15/2017

Aluminum	<0.0500 mg/L	0.0500	mg/L
Barium	<0.0100 mg/L	0.0100	mg/L
Beryllium	<0.0040 mg/L	0.0040	mg/L
Cadmium	<0.0040 mg/L	0.0040	mg/L
Calcium	<0.0500 mg/L	0.0500	mg/L
Chromium	<0.0100 mg/L	0.0100	mg/L
Cobalt	<0.0040 mg/L	0.0040	mg/L
Copper	<0.0100 mg/L	0.0100	mg/L
Iron	<0.0100 mg/L	0.0100	mg/L
Lead	<0.0100 mg/L	0.0100	mg/L
Magnesium	<0.0100 mg/L	0.0100	mg/L
Manganese	<0.0100 mg/L	0.0100	mg/L
Nickel	<0.0100 mg/L	0.0100	mg/L
Silver	<0.0100 mg/L	0.0100	mg/L
Vanadium	<0.0100 mg/L	0.0100	mg/L
Zinc	<0.0100 mg/L	0.0100	mg/L

Blank (BAK0403-BLK2)

Prepared: 11/14/2017 Analyzed: 11/16/2017

Potassium	<0.50 mg/L	0.50	mg/L
Sodium	<0.50 mg/L	0.50	mg/L

LCS (BAK0403-BS1)

Prepared: 11/14/2017 Analyzed: 11/15/2017

Aluminum	0.495 mg/L	0.0500	mg/L	0.500 mg/L	99.0	80-120
Barium	0.474 mg/L	0.0100	mg/L	0.500 mg/L	94.8	80-120
Beryllium	0.472 mg/L	0.0040	mg/L	0.500 mg/L	94.4	80-120
Cadmium	0.476 mg/L	0.0040	mg/L	0.500 mg/L	95.2	80-120
Calcium	0.474 mg/L	0.0500	mg/L	0.500 mg/L	94.8	80-120
Chromium	0.479 mg/L	0.0100	mg/L	0.500 mg/L	95.8	80-120
Cobalt	0.485 mg/L	0.0040	mg/L	0.500 mg/L	97.1	80-120
Copper	0.472 mg/L	0.0100	mg/L	0.500 mg/L	94.3	80-120
Iron	0.481 mg/L	0.0100	mg/L	0.500 mg/L	96.3	80-120
Lead	0.493 mg/L	0.0100	mg/L	0.500 mg/L	98.6	80-120



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Certificate of Analysis

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Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0403 - EPA200.2/R2.8

LCS (BAK0403-BS1)

Prepared: 11/14/2017 Analyzed: 11/15/2017

Magnesium	0.483 mg/L	0.0100	mg/L	0.500	mg/L	96.5	80-120			
Manganese	0.477 mg/L	0.0100	mg/L	0.500	mg/L	95.5	80-120			
Nickel	0.4840 mg/L	0.0100	mg/L	0.500	mg/L	96.8	80-120			
Silver	0.109 mg/L	0.0100	mg/L	0.100	mg/L	109	80-120			E
Vanadium	0.468 mg/L	0.0100	mg/L	0.500	mg/L	93.6	80-120			
Zinc	0.482 mg/L	0.0100	mg/L	0.500	mg/L	96.5	80-120			

LCS (BAK0403-BS2)

Prepared: 11/14/2017 Analyzed: 11/16/2017

Potassium	5.27 mg/L	0.50	mg/L	5.00	mg/L	105	80-120			
Sodium	5.13 mg/L	0.50	mg/L	5.00	mg/L	103	80-120			

LCS Dup (BAK0403-BSD1)

Prepared: 11/14/2017 Analyzed: 11/15/2017

Aluminum	0.492 mg/L	0.0500	mg/L	0.500	mg/L	98.3	80-120	0.660	20	
Barium	0.469 mg/L	0.0100	mg/L	0.500	mg/L	93.8	80-120	1.03	20	
Beryllium	0.468 mg/L	0.0040	mg/L	0.500	mg/L	93.5	80-120	0.888	20	
Cadmium	0.474 mg/L	0.0040	mg/L	0.500	mg/L	94.9	80-120	0.344	20	
Calcium	0.462 mg/L	0.0500	mg/L	0.500	mg/L	92.5	80-120	2.41	20	
Chromium	0.474 mg/L	0.0100	mg/L	0.500	mg/L	94.8	80-120	1.04	20	
Cobalt	0.480 mg/L	0.0040	mg/L	0.500	mg/L	96.0	80-120	1.13	20	
Copper	0.470 mg/L	0.0100	mg/L	0.500	mg/L	93.9	80-120	0.416	20	
Iron	0.477 mg/L	0.0100	mg/L	0.500	mg/L	95.3	80-120	0.993	20	
Lead	0.480 mg/L	0.0100	mg/L	0.500	mg/L	96.0	80-120	2.73	20	
Magnesium	0.487 mg/L	0.0100	mg/L	0.500	mg/L	97.4	80-120	0.915	20	
Manganese	0.475 mg/L	0.0100	mg/L	0.500	mg/L	95.1	80-120	0.423	20	
Nickel	0.4792 mg/L	0.0100	mg/L	0.500	mg/L	95.8	80-120	0.997	20	
Silver	0.107 mg/L	0.0100	mg/L	0.100	mg/L	107	80-120	1.69	20	E
Vanadium	0.466 mg/L	0.0100	mg/L	0.500	mg/L	93.2	80-120	0.485	20	
Zinc	0.476 mg/L	0.0100	mg/L	0.500	mg/L	95.2	80-120	1.26	20	



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Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 11/20/2017 17:06
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0403 - EPA200.2/R2.8

LCS Dup (BAK0403-BSD2)

Prepared: 11/14/2017 Analyzed: 11/16/2017

Potassium	5.17 mg/L	0.50	mg/L	5.00	mg/L	103	80-120	2.05	20	
Sodium	5.02 mg/L	0.50	mg/L	5.00	mg/L	100	80-120	2.18	20	

Matrix Spike (BAK0403-MS1)

Source: 17K0416-01

Prepared: 11/14/2017 Analyzed: 11/15/2017

Aluminum	0.562 mg/L	0.0500	mg/L	0.500	<0.0500 mg/L	104	75-125			
Barium	0.544 mg/L	0.0100	mg/L	0.500	0.0265 mg/L	104	75-125			
Beryllium	0.520 mg/L	0.0040	mg/L	0.500	<0.0040 mg/L	104	75-125			
Cadmium	0.521 mg/L	0.0040	mg/L	0.500	<0.0040 mg/L	104	75-125			
Calcium	95.9 mg/L	0.0500	mg/L	0.500	84.0 mg/L	2370	75-125			M, E
Chromium	0.517 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	103	75-125			
Cobalt	0.555 mg/L	0.0040	mg/L	0.500	0.0414 mg/L	103	75-125			
Copper	0.523 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	105	75-125			
Iron	5.30 mg/L	0.0100	mg/L	0.500	4.28 mg/L	204	75-125			M
Lead	0.513 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	103	75-125			
Magnesium	62.5 mg/L	0.0100	mg/L	0.500	55.4 mg/L	1430	75-125			M, E
Manganese	5.09 mg/L	0.0100	mg/L	0.500	4.07 mg/L	204	75-125			M
Nickel	0.5938 mg/L	0.0100	mg/L	0.500	0.0802 mg/L	103	75-125			
Silver	0.117 mg/L	0.0100	mg/L	0.100	<0.0100 mg/L	117	75-125			E
Vanadium	0.512 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	102	75-125			
Zinc	0.580 mg/L	0.0100	mg/L	0.500	0.0552 mg/L	105	75-125			

Matrix Spike (BAK0403-MS2)

Source: 17K0416-04

Prepared: 11/14/2017 Analyzed: 11/15/2017

Aluminum	29.0 mg/L	0.0500	mg/L	0.500	28.0 mg/L	206	75-125			M
Barium	0.532 mg/L	0.0100	mg/L	0.500	0.0350 mg/L	99.5	75-125			
Beryllium	0.511 mg/L	0.0040	mg/L	0.500	<0.0040 mg/L	102	75-125			
Cadmium	0.514 mg/L	0.0040	mg/L	0.500	0.0142 mg/L	100	75-125			
Calcium	104 mg/L	0.0500	mg/L	0.500	105 mg/L	-294	75-125			M, E
Chromium	0.957 mg/L	0.0100	mg/L	0.500	0.464 mg/L	98.7	75-125			
Cobalt	0.800 mg/L	0.0040	mg/L	0.500	0.298 mg/L	100	75-125			
Copper	0.496 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	99.2	75-125			
Iron	160 mg/L	0.0100	mg/L	0.500	162 mg/L	-497	75-125			M, E
Lead	0.512 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	102	75-125			



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Certificate of Analysis

Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 11/20/2017 17:06
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0403 - EPA200.2/R2.8

Matrix Spike (BAK0403-MS2)		Source: 17K0416-04			Prepared: 11/14/2017 Analyzed: 11/15/2017					
Magnesium	68.6 mg/L	0.0100	mg/L	0.500	70.0 mg/L	-293	75-125		M, E	
Manganese	11.5 mg/L	0.0100	mg/L	0.500	11.2 mg/L	60.3	75-125		M	
Nickel	1.083 mg/L	0.0100	mg/L	0.500	0.5774 mg/L	101	75-125			
Silver	0.116 mg/L	0.0100	mg/L	0.100	<0.0100 mg/L	116	75-125		E	
Vanadium	0.513 mg/L	0.0100	mg/L	0.500	0.0166 mg/L	99.3	75-125			
Zinc	1.44 mg/L	0.0100	mg/L	0.500	0.975 mg/L	93.0	75-125			
Matrix Spike (BAK0403-MS3)		Source: 17K0416-01RE1			Prepared: 11/14/2017 Analyzed: 11/15/2017					
Calcium	82.0 mg/L	0.500	mg/L	0.500	83.4 mg/L	-282	75-125		M2	
Iron	4.47 mg/L	0.100	mg/L	0.500	4.28 mg/L	36.7	75-125		M2	
Magnesium	54.1 mg/L	0.100	mg/L	0.500	54.0 mg/L	18.9	75-125		M2	
Matrix Spike (BAK0403-MS4)		Source: 17K0416-04RE1			Prepared: 11/14/2017 Analyzed: 11/15/2017					
Calcium	98.6 mg/L	5.00	mg/L	0.500	9.85 mg/L	17700	75-125		M2	
Iron	155 mg/L	1.00	mg/L	0.500	15.4 mg/L	27900	75-125		M2	
Magnesium	64.1 mg/L	1.00	mg/L	0.500	6.36 mg/L	11500	75-125		M2	
Matrix Spike (BAK0403-MS5)		Source: 17K0416-01			Prepared: 11/14/2017 Analyzed: 11/16/2017					
Potassium	14.3 mg/L	0.50	mg/L	5.00	8.63 mg/L	113	75-125			
Sodium	48.3 mg/L	0.50	mg/L	5.00	41.0 mg/L	147	75-125		M	
Matrix Spike (BAK0403-MS6)		Source: 17K0416-04			Prepared: 11/14/2017 Analyzed: 11/16/2017					
Potassium	16.9 mg/L	0.50	mg/L	5.00	11.4 mg/L	109	75-125			
Sodium	61.5 mg/L	0.50	mg/L	5.00	54.8 mg/L	134	75-125		M	
Matrix Spike Dup (BAK0403-MSD1)		Source: 17K0416-01			Prepared: 11/14/2017 Analyzed: 11/15/2017					
Aluminum	0.536 mg/L	0.0500	mg/L	0.500	<0.0500 mg/L	99.1	75-125	4.85	20	
Barium	0.526 mg/L	0.0100	mg/L	0.500	0.0265 mg/L	99.9	75-125	3.36	20	
Beryllium	0.508 mg/L	0.0040	mg/L	0.500	<0.0040 mg/L	102	75-125	2.34	20	
Cadmium	0.511 mg/L	0.0040	mg/L	0.500	<0.0040 mg/L	102	75-125	1.87	20	
Calcium	91.8 mg/L	0.0500	mg/L	0.500	84.0 mg/L	1550	75-125	4.38	20 M, E	
Chromium	0.503 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	101	75-125	2.77	20	
Cobalt	0.543 mg/L	0.0040	mg/L	0.500	0.0414 mg/L	100	75-125	2.07	20	
Copper	0.505 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	101	75-125	3.49	20	



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 1001 Boulders Parkway, Suite 300
 Richmond VA, 23225

Date Issued: 11/20/2017 17:06

Submitted To: Julia Campus

Project Number: [none]

Client Site I.D.: East Main Street Parcels

Purchase Order:

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0403 - EPA200.2/R2.8

Matrix Spike Dup (BAK0403-MSD1)

Source: 17K0416-01

Prepared: 11/14/2017 Analyzed: 11/15/2017

Iron	5.17 mg/L	0.0100	mg/L	0.500	4.28 mg/L	178	75-125	2.46	20	M
Lead	0.503 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	101	75-125	2.04	20	
Magnesium	61.4 mg/L	0.0100	mg/L	0.500	55.4 mg/L	1220	75-125	1.76	20	M, E
Manganese	4.95 mg/L	0.0100	mg/L	0.500	4.07 mg/L	177	75-125	2.76	20	M
Nickel	0.5830 mg/L	0.0100	mg/L	0.500	0.0802 mg/L	101	75-125	1.82	20	
Silver	0.113 mg/L	0.0100	mg/L	0.100	<0.0100 mg/L	113	75-125	3.65	20	E
Vanadium	0.496 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	99.3	75-125	3.13	20	
Zinc	0.560 mg/L	0.0100	mg/L	0.500	0.0552 mg/L	101	75-125	3.39	20	

Matrix Spike Dup (BAK0403-MSD2)

Source: 17K0416-04

Prepared: 11/14/2017 Analyzed: 11/15/2017

Aluminum	28.8 mg/L	0.0500	mg/L	0.500	28.0 mg/L	152	75-125	0.933	20	M
Barium	0.527 mg/L	0.0100	mg/L	0.500	0.0350 mg/L	98.4	75-125	0.982	20	
Beryllium	0.521 mg/L	0.0040	mg/L	0.500	<0.0040 mg/L	104	75-125	1.85	20	
Cadmium	0.510 mg/L	0.0040	mg/L	0.500	0.0142 mg/L	99.2	75-125	0.786	20	
Calcium	105 mg/L	0.0500	mg/L	0.500	105 mg/L	-136	75-125	0.760	20	M, E
Chromium	0.974 mg/L	0.0100	mg/L	0.500	0.464 mg/L	102	75-125	1.75	20	
Cobalt	0.787 mg/L	0.0040	mg/L	0.500	0.298 mg/L	97.6	75-125	1.72	20	
Copper	0.506 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	101	75-125	1.93	20	
Iron	161 mg/L	0.0100	mg/L	0.500	162 mg/L	-238	75-125	0.808	20	M, E
Lead	0.502 mg/L	0.0100	mg/L	0.500	<0.0100 mg/L	100	75-125	1.97	20	
Magnesium	67.9 mg/L	0.0100	mg/L	0.500	70.0 mg/L	-434	75-125	1.04	20	M, E
Manganese	11.6 mg/L	0.0100	mg/L	0.500	11.2 mg/L	78.6	75-125	0.793	20	
Nickel	1.073 mg/L	0.0100	mg/L	0.500	0.5774 mg/L	99.2	75-125	0.916	20	
Silver	0.116 mg/L	0.0100	mg/L	0.100	<0.0100 mg/L	116	75-125	0.357	20	E
Vanadium	0.521 mg/L	0.0100	mg/L	0.500	0.0166 mg/L	101	75-125	1.52	20	
Zinc	1.44 mg/L	0.0100	mg/L	0.500	0.975 mg/L	92.4	75-125	0.212	20	

Matrix Spike Dup (BAK0403-MSD3)

Source: 17K0416-01RE1

Prepared: 11/14/2017 Analyzed: 11/15/2017

Calcium	83.7 mg/L	0.500	mg/L	0.500	83.4 mg/L	64.6	75-125	2.09	20	M2
Iron	4.57 mg/L	0.100	mg/L	0.500	4.28 mg/L	58.0	75-125	2.36	20	M2
Magnesium	55.0 mg/L	0.100	mg/L	0.500	54.0 mg/L	204	75-125	1.70	20	M2



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Certificate of Analysis

Final Report

Client Name: Timmons Group	Date Issued: 11/20/2017 17:06
1001 Boulders Parkway, Suite 300	
Richmond VA, 23225	
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0403 - EPA200.2/R2.8

Matrix Spike Dup (BAK0403-MSD4) Source: 17K0416-04RE1 Prepared: 11/14/2017 Analyzed: 11/15/2017

Calcium	103 mg/L	5.00	mg/L	0.500	9.85 mg/L	18700	75-125	4.56	20	M2
Iron	161 mg/L	1.00	mg/L	0.500	15.4 mg/L	29100	75-125	3.75	20	M2
Magnesium	67.4 mg/L	1.00	mg/L	0.500	6.36 mg/L	12200	75-125	5.05	20	M2

Matrix Spike Dup (BAK0403-MSD5) Source: 17K0416-01 Prepared: 11/14/2017 Analyzed: 11/16/2017

Potassium	14.5 mg/L	0.50	mg/L	5.00	8.63 mg/L	117	75-125	1.20	20	
Sodium	49.3 mg/L	0.50	mg/L	5.00	41.0 mg/L	167	75-125	2.03	20	M

Matrix Spike Dup (BAK0403-MSD6) Source: 17K0416-04 Prepared: 11/14/2017 Analyzed: 11/16/2017

Potassium	16.7 mg/L	0.50	mg/L	5.00	11.4 mg/L	106	75-125	0.807	20	
Sodium	60.6 mg/L	0.50	mg/L	5.00	54.8 mg/L	116	75-125	1.52	20	

Batch BAK0405 - EPA200.8 R5.4

Blank (BAK0405-BLK1) Prepared: 11/14/2017 Analyzed: 11/15/2017

Antimony	<1.00 ug/L	1.00	ug/L							
Arsenic	<1.0 ug/L	1.0	ug/L							
Selenium	<1.00 ug/L	1.00	ug/L							
Thallium	<1.00 ug/L	1.00	ug/L							

LCS (BAK0405-BS1) Prepared: 11/14/2017 Analyzed: 11/15/2017

Antimony	48.7 ug/L	1.00	ug/L	50.0	ug/L	97.5	80-120			
Arsenic	47 ug/L	1.0	ug/L	50.0	ug/L	93.8	80-120			
Selenium	48.3 ug/L	1.00	ug/L	50.0	ug/L	96.6	80-120			
Thallium	49.0 ug/L	1.00	ug/L	50.0	ug/L	98.1	80-120			

LCS Dup (BAK0405-BSD1) Prepared: 11/14/2017 Analyzed: 11/15/2017

Antimony	50.0 ug/L	1.00	ug/L	50.0	ug/L	99.9	80-120	2.50	20	
Arsenic	49 ug/L	1.0	ug/L	50.0	ug/L	97.4	80-120	3.78	20	
Selenium	49.4 ug/L	1.00	ug/L	50.0	ug/L	98.9	80-120	2.40	20	
Thallium	47.5 ug/L	1.00	ug/L	50.0	ug/L	94.9	80-120	3.31	20	



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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0405 - EPA200.8 R5.4

Matrix Spike (BAK0405-MS1)	Source: 17K0416-01		Prepared: 11/14/2017 Analyzed: 11/15/2017							
Antimony	50.4 ug/L	1.00	ug/L	50.0	<1.00 ug/L	101	75-125			
Arsenic	52 ug/L	1.0	ug/L	50.0	<1.0 ug/L	105	75-125			
Selenium	56.5 ug/L	1.00	ug/L	50.0	1.22 ug/L	111	75-125			
Thallium	45.3 ug/L	1.00	ug/L	50.0	<1.00 ug/L	90.5	75-125			

Matrix Spike Dup (BAK0405-MSD1)	Source: 17K0416-01		Prepared: 11/14/2017 Analyzed: 11/15/2017							
Antimony	51.0 ug/L	1.00	ug/L	50.0	<1.00 ug/L	102	75-125	1.30	20	
Arsenic	54 ug/L	1.0	ug/L	50.0	<1.0 ug/L	107	75-125	2.32	20	
Selenium	56.5 ug/L	1.00	ug/L	50.0	1.22 ug/L	111	75-125	0.0726	20	
Thallium	47.2 ug/L	1.00	ug/L	50.0	<1.00 ug/L	94.4	75-125	4.18	20	

Batch BAK0416 - SW7470A

Blank (BAK0416-BLK1)			Prepared & Analyzed: 11/15/2017							
Mercury	<0.00020 mg/L	0.00020	mg/L							

LCS (BAK0416-BS1)			Prepared & Analyzed: 11/15/2017							
Mercury	0.00248 mg/L	0.00020	mg/L	0.00250 mg/L		99.2	80-120			

LCS Dup (BAK0416-BSD1)			Prepared & Analyzed: 11/15/2017							
Mercury	0.00250 mg/L	0.00020	mg/L	0.00250 mg/L		100	80-120	0.887	20	

Matrix Spike (BAK0416-MS1)	Source: 17K0424-09		Prepared & Analyzed: 11/15/2017							
Mercury	0.00231 mg/L	0.00020	mg/L	0.00250	<0.00020 mg/L	92.3	80-120			

Matrix Spike (BAK0416-MS2)	Source: 17K0424-12		Prepared & Analyzed: 11/15/2017							
Mercury	0.00237 mg/L	0.00020	mg/L	0.00250	<0.00020 mg/L	94.9	80-120			



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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0416 - SW7470A

Matrix Spike Dup (BAK0416-MSD1)		Source: 17K0424-09			Prepared & Analyzed: 11/15/2017					
Mercury	0.00224 mg/L	0.00020	mg/L	0.00250	<0.00020 mg/L	89.7	80-120	2.84	20	
Matrix Spike Dup (BAK0416-MSD2)		Source: 17K0424-12			Prepared & Analyzed: 11/15/2017					
Mercury	0.00241 mg/L	0.00020	mg/L	0.00250	<0.00020 mg/L	96.3	80-120	1.49	20	



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Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0424 - SW5030B

Blank (BAK0424-BLK1)

Prepared & Analyzed: 11/14/2017

1,1,1,2-Tetrachloroethane	<0.40 ug/L	0.40	ug/L							
1,1,1-Trichloroethane	<1.00 ug/L	1.00	ug/L							
1,1,1,2,2-Tetrachloroethane	<0.40 ug/L	0.40	ug/L							
1,1,2-Trichloroethane	<1.00 ug/L	1.00	ug/L							
1,1-Dichloroethane	<1.00 ug/L	1.00	ug/L							
1,1-Dichloroethylene	<1.00 ug/L	1.00	ug/L							
1,1-Dichloropropene	<1.00 ug/L	1.00	ug/L							
1,2,3-Trichlorobenzene	<1.00 ug/L	1.00	ug/L							
1,2,3-Trichloropropane	<1.00 ug/L	1.00	ug/L							
1,2,4-Trichlorobenzene	<1.00 ug/L	1.00	ug/L							
1,2,4-Trimethylbenzene	<1.00 ug/L	1.00	ug/L							
1,2-Dibromo-3-chloropropane (DBCP)	<4.00 ug/L	4.00	ug/L							
1,2-Dibromoethane (EDB)	<1.00 ug/L	1.00	ug/L							
1,2-Dichlorobenzene	<1.00 ug/L	1.00	ug/L							
1,2-Dichloroethane	<1.00 ug/L	1.00	ug/L							
1,2-Dichloropropane	<1.00 ug/L	1.00	ug/L							
1,3,5-Trimethylbenzene	<1.00 ug/L	1.00	ug/L							
1,3-Dichlorobenzene	<1.00 ug/L	1.00	ug/L							
1,3-Dichloropropane	<1.00 ug/L	1.00	ug/L							
1,4-Dichlorobenzene	<1.00 ug/L	1.00	ug/L							
2,2-Dichloropropane	<2.00 ug/L	2.00	ug/L							
2-Butanone (MEK)	<10.0 ug/L	10.0	ug/L							
2-Chlorotoluene	<1.00 ug/L	1.00	ug/L							
2-Hexanone (MBK)	<5.00 ug/L	5.00	ug/L							
4-Chlorotoluene	<1.00 ug/L	1.00	ug/L							
4-Isopropyltoluene	<1.00 ug/L	1.00	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.00 ug/L	5.00	ug/L							
Acetone	<10.0 ug/L	10.0	ug/L							
Benzene	<1.00 ug/L	1.00	ug/L							
Bromobenzene	<1.00 ug/L	1.00	ug/L							
Bromochloromethane	<1.00 ug/L	1.00	ug/L							



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Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Qual
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Batch BAK0424 - SW5030B

Blank (BAK0424-BLK1)

Prepared & Analyzed: 11/14/2017

Bromodichloromethane	<0.50 ug/L	0.50	ug/L							
Bromoform	<1.00 ug/L	1.00	ug/L							
Bromomethane	<1.00 ug/L	1.00	ug/L							
Carbon disulfide	<10.0 ug/L	10.0	ug/L							
Carbon tetrachloride	<1.00 ug/L	1.00	ug/L							
Chlorobenzene	<1.00 ug/L	1.00	ug/L							
Chloroethane	<1.00 ug/L	1.00	ug/L							
Chloroform	<0.50 ug/L	0.50	ug/L							
Chloromethane	<1.00 ug/L	1.00	ug/L							
cis-1,2-Dichloroethylene	<1.00 ug/L	1.00	ug/L							
cis-1,3-Dichloropropene	<1.00 ug/L	1.00	ug/L							
Dibromochloromethane	<1.00 ug/L	1.00	ug/L							
Dibromomethane	<1.00 ug/L	1.00	ug/L							
Dichlorodifluoromethane	<1.00 ug/L	1.00	ug/L							
Di-isopropyl ether (DIPE)	<5.00 ug/L	5.00	ug/L							
Ethylbenzene	<1.00 ug/L	1.00	ug/L							
Hexachlorobutadiene	<1.00 ug/L	1.00	ug/L							
Iodomethane	<10.0 ug/L	10.0	ug/L							
Isopropylbenzene	<1.00 ug/L	1.00	ug/L							
m+p-Xylenes	<2.00 ug/L	2.00	ug/L							
Methylene chloride	<4.00 ug/L	4.00	ug/L							
Methyl-t-butyl ether (MTBE)	<1.00 ug/L	1.00	ug/L							
Naphthalene	<1.00 ug/L	1.00	ug/L							
n-Butylbenzene	<1.00 ug/L	1.00	ug/L							
n-Propylbenzene	<1.00 ug/L	1.00	ug/L							
o-Xylene	<1.00 ug/L	1.00	ug/L							
sec-Butylbenzene	<1.00 ug/L	1.00	ug/L							
Styrene	<1.00 ug/L	1.00	ug/L							
tert-Butylbenzene	<1.00 ug/L	1.00	ug/L							
Tetrachloroethylene (PCE)	<1.00 ug/L	1.00	ug/L							
Toluene	<1.00 ug/L	1.00	ug/L							



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Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 11/20/2017 17:06
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Qual
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Batch BAK0424 - SW5030B

Blank (BAK0424-BLK1)

Prepared & Analyzed: 11/14/2017

trans-1,2-Dichloroethylene	<1.00 ug/L	1.00	ug/L							
trans-1,3-Dichloropropene	<1.00 ug/L	1.00	ug/L							
Trichloroethylene	<1.00 ug/L	1.00	ug/L							
Trichlorofluoromethane	<1.00 ug/L	1.00	ug/L							
Vinyl acetate	<10.0 ug/L	10.0	ug/L							
Vinyl chloride	<0.50 ug/L	0.50	ug/L							
Xylenes, Total	<3.00 ug/L	3.00	ug/L							
<hr style="border-top: 1px dashed black;"/>										
Surr: 1,2-Dichloroethane-d4 (Surr)	52.3		ug/L	50.0		105	70-120			
Surr: 4-Bromofluorobenzene (Surr)	43.8		ug/L	50.0		87.6	75-120			
Surr: Dibromofluoromethane (Surr)	53.2		ug/L	50.0		106	80-119			
Surr: Toluene-d8 (Surr)	50.4		ug/L	50.0		101	85-120			

LCS (BAK0424-BS1)

Prepared & Analyzed: 11/14/2017

1,1,1,2-Tetrachloroethane	48.9 ug/L	0.4	ug/L	50.0	ug/L	97.7	80-130			
1,1,1-Trichloroethane	45.9 ug/L	1	ug/L	50.0	ug/L	91.8	65-130			
1,1,2,2-Tetrachloroethane	47.7 ug/L	0.4	ug/L	50.0	ug/L	95.4	65-130			
1,1,2-Trichloroethane	46.0 ug/L	1	ug/L	50.0	ug/L	92.0	75-125			
1,1-Dichloroethane	47.8 ug/L	1	ug/L	50.0	ug/L	95.7	70-135			
1,1-Dichloroethylene	44.4 ug/L	1	ug/L	50.0	ug/L	88.8	70-130			
1,1-Dichloropropene	45.3 ug/L	1	ug/L	50.0	ug/L	90.5	75-135			
1,2,3-Trichlorobenzene	48.0 ug/L	1	ug/L	50.0	ug/L	96.0	55-140			
1,2,3-Trichloropropane	48.6 ug/L	1	ug/L	50.0	ug/L	97.3	75-125			
1,2,4-Trichlorobenzene	49.4 ug/L	1	ug/L	50.0	ug/L	98.7	65-135			
1,2,4-Trimethylbenzene	54.3 ug/L	1	ug/L	50.0	ug/L	109	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	49.0 ug/L	4	ug/L	50.0	ug/L	98.1	50-130			
1,2-Dibromoethane (EDB)	50.1 ug/L	1	ug/L	50.0	ug/L	100	80-120			
1,2-Dichlorobenzene	50.7 ug/L	1	ug/L	50.0	ug/L	101	70-120			
1,2-Dichloroethane	43.0 ug/L	1	ug/L	50.0	ug/L	86.0	70-130			
1,2-Dichloropropane	45.8 ug/L	1	ug/L	50.0	ug/L	91.6	75-125			
1,3,5-Trimethylbenzene	56.4 ug/L	1	ug/L	50.0	ug/L	113	75-125			
1,3-Dichlorobenzene	52.4 ug/L	1	ug/L	50.0	ug/L	105	75-125			



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Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0424 - SW5030B

LCS (BAK0424-BS1)

Prepared & Analyzed: 11/14/2017

1,3-Dichloropropane	43.9 ug/L	1	ug/L	50.0	ug/L	87.7	75-125			
1,4-Dichlorobenzene	51.1 ug/L	1	ug/L	50.0	ug/L	102	75-125			
2,2-Dichloropropane	49.4 ug/L	2	ug/L	50.0	ug/L	98.8	70-135			
2-Butanone (MEK)	30.9 ug/L	10	ug/L	50.0	ug/L	61.8	30-150			
2-Chlorotoluene	55.0 ug/L	1	ug/L	50.0	ug/L	110	75-125			
2-Hexanone (MBK)	44.5 ug/L	5	ug/L	50.0	ug/L	89.0	55-130			
4-Chlorotoluene	54.1 ug/L	1	ug/L	50.0	ug/L	108	75-130			
4-Isopropyltoluene	54.7 ug/L	1	ug/L	50.0	ug/L	109	75-130			
4-Methyl-2-pentanone (MIBK)	39.9 ug/L	5	ug/L	50.0	ug/L	79.8	60-135			
Acetone	43.3 ug/L	10	ug/L	50.0	ug/L	86.5	40-140			
Benzene	46.4 ug/L	1	ug/L	50.0	ug/L	92.8	80-120			
Bromobenzene	47.9 ug/L	1	ug/L	50.0	ug/L	95.7	75-125			
Bromochloromethane	44.6 ug/L	1	ug/L	50.0	ug/L	89.2	65-130			
Bromodichloromethane	46.2 ug/L	0.5	ug/L	50.0	ug/L	92.4	75-120			
Bromoform	48.7 ug/L	1	ug/L	50.0	ug/L	97.4	70-130			
Bromomethane	48.9 ug/L	1	ug/L	50.0	ug/L	97.7	30-145			
Carbon disulfide	38.4 ug/L	10	ug/L	50.0	ug/L	76.8	35-160			
Carbon tetrachloride	44.8 ug/L	1	ug/L	50.0	ug/L	89.5	65-140			
Chlorobenzene	49.2 ug/L	1	ug/L	50.0	ug/L	98.3	80-120			
Chloroethane	49.9 ug/L	1	ug/L	50.0	ug/L	99.8	60-135			
Chloroform	44.4 ug/L	0.5	ug/L	50.0	ug/L	88.7	65-135			
Chloromethane	49.0 ug/L	1	ug/L	50.0	ug/L	97.9	40-125			
cis-1,2-Dichloroethylene	43.8 ug/L	1	ug/L	50.0	ug/L	87.5	70-125			
cis-1,3-Dichloropropene	47.4 ug/L	1	ug/L	50.0	ug/L	94.7	70-130			
Dibromochloromethane	45.2 ug/L	1	ug/L	50.0	ug/L	90.3	60-135			
Dibromomethane	44.1 ug/L	1	ug/L	50.0	ug/L	88.2	75-125			
Dichlorodifluoromethane	49.2 ug/L	1	ug/L	50.0	ug/L	98.4	30-155			
Ethylbenzene	50.6 ug/L	1	ug/L	50.0	ug/L	101	75-125			
Hexachlorobutadiene	49.7 ug/L	1	ug/L	50.0	ug/L	99.4	50-140			
Isopropylbenzene	54.3 ug/L	1	ug/L	50.0	ug/L	109	75-125			
m+p-Xylenes	103 ug/L	2	ug/L	100	ug/L	103	75-130			



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Certificate of Analysis

Final Report

Client Name: Timmons Group	Date Issued: 11/20/2017 17:06
1001 Boulders Parkway, Suite 300	
Richmond VA, 23225	
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0424 - SW5030B

LCS (BAK0424-BS1)

Prepared & Analyzed: 11/14/2017

Methylene chloride	45.8 ug/L	4	ug/L	50.0	ug/L	91.6	55-140			
Methyl-t-butyl ether (MTBE)	43.8 ug/L	1	ug/L	50.0	ug/L	87.6	65-125			
Naphthalene	47.7 ug/L	1	ug/L	50.0	ug/L	95.5	55-140			
n-Butylbenzene	57.6 ug/L	1	ug/L	50.0	ug/L	115	70-135			
n-Propylbenzene	54.6 ug/L	1	ug/L	50.0	ug/L	109	70-130			
o-Xylene	50.8 ug/L	1	ug/L	50.0	ug/L	102	80-120			
sec-Butylbenzene	57.1 ug/L	1	ug/L	50.0	ug/L	114	70-125			
Styrene	49.9 ug/L	1	ug/L	50.0	ug/L	99.9	65-135			
tert-Butylbenzene	56.2 ug/L	1	ug/L	50.0	ug/L	112	70-130			
Tetrachloroethylene (PCE)	68.6 ug/L	1	ug/L	50.0	ug/L	137	45-150			
Toluene	44.1 ug/L	1	ug/L	50.0	ug/L	88.2	75-120			
trans-1,2-Dichloroethylene	43.5 ug/L	1	ug/L	50.0	ug/L	87.0	60-140			
trans-1,3-Dichloropropene	43.9 ug/L	1	ug/L	50.0	ug/L	87.8	55-140			
Trichloroethylene	45.2 ug/L	1	ug/L	50.0	ug/L	90.5	70-125			
Trichlorofluoromethane	45.8 ug/L	1	ug/L	50.0	ug/L	91.6	60-145			
Vinyl chloride	47.2 ug/L	0.5	ug/L	50.0	ug/L	94.4	50-145			

Surr: 1,2-Dichloroethane-d4 (Surr)	53.1		ug/L	50.0	ug/L	106	70-120			
Surr: 4-Bromofluorobenzene (Surr)	50.7		ug/L	50.0	ug/L	101	75-120			
Surr: Dibromofluoromethane (Surr)	49.4		ug/L	50.0	ug/L	98.9	80-119			
Surr: Toluene-d8 (Surr)	49.9		ug/L	50.0	ug/L	99.7	85-120			

Matrix Spike (BAK0424-MS1)

Source: 17K0409-01

Prepared & Analyzed: 11/14/2017

1,1,1,2-Tetrachloroethane	48.4 ug/L	0.4	ug/L	50.0	<0.4 ug/L	96.9	80-130			
1,1,1-Trichloroethane	43.1 ug/L	1	ug/L	50.0	<1 ug/L	86.2	65-130			
1,1,2,2-Tetrachloroethane	50.4 ug/L	0.4	ug/L	50.0	<0.4 ug/L	101	65-130			
1,1,2-Trichloroethane	48.3 ug/L	1	ug/L	50.0	<1 ug/L	96.5	75-125			
1,1-Dichloroethane	47.6 ug/L	1	ug/L	50.0	<1 ug/L	95.3	70-135			
1,1-Dichloroethylene	43.8 ug/L	1	ug/L	50.0	<1 ug/L	87.6	70-130			
1,1-Dichloropropene	44.0 ug/L	1	ug/L	50.0	<1 ug/L	88.0	75-135			
1,2,3-Trichlorobenzene	50.0 ug/L	1	ug/L	50.0	<1 ug/L	100	55-140			
1,2,3-Trichloropropane	51.7 ug/L	1	ug/L	50.0	<1 ug/L	103	75-125			



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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0424 - SW5030B

Matrix Spike (BAK0424-MS1)

Source: 17K0409-01

Prepared & Analyzed: 11/14/2017

1,2,4-Trichlorobenzene	51.4 ug/L	1	ug/L	50.0	<1 ug/L	103	65-135			
1,2,4-Trimethylbenzene	53.3 ug/L	1	ug/L	50.0	<1 ug/L	107	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	54.6 ug/L	4	ug/L	50.0	<4 ug/L	109	50-130			
1,2-Dibromoethane (EDB)	52.3 ug/L	1	ug/L	50.0	<1 ug/L	105	80-120			
1,2-Dichlorobenzene	48.3 ug/L	1	ug/L	50.0	<1 ug/L	96.5	70-120			
1,2-Dichloroethane	42.1 ug/L	1	ug/L	50.0	<1 ug/L	84.2	70-130			
1,2-Dichloropropane	47.1 ug/L	1	ug/L	50.0	<1 ug/L	94.3	75-125			
1,3,5-Trimethylbenzene	57.6 ug/L	1	ug/L	50.0	<1 ug/L	115	75-125			
1,3-Dichlorobenzene	48.2 ug/L	1	ug/L	50.0	<1 ug/L	96.4	75-125			
1,3-Dichloropropane	46.3 ug/L	1	ug/L	50.0	<1 ug/L	92.6	75-125			
1,4-Dichlorobenzene	46.3 ug/L	1	ug/L	50.0	<1 ug/L	92.7	75-125			
2,2-Dichloropropane	45.3 ug/L	2	ug/L	50.0	<2 ug/L	90.6	70-135			
2-Butanone (MEK)	51.8 ug/L	10	ug/L	50.0	<10 ug/L	104	30-150			
2-Chlorotoluene	52.0 ug/L	1	ug/L	50.0	<1 ug/L	104	75-125			
2-Hexanone (MBK)	52.9 ug/L	5	ug/L	50.0	<5 ug/L	106	55-130			
4-Chlorotoluene	50.0 ug/L	1	ug/L	50.0	<1 ug/L	100	75-130			
4-Isopropyltoluene	52.6 ug/L	1	ug/L	50.0	<1 ug/L	105	75-130			
4-Methyl-2-pentanone (MIBK)	48.5 ug/L	5	ug/L	50.0	<5 ug/L	96.9	60-135			
Acetone	54.0 ug/L	10	ug/L	50.0	<10 ug/L	103	40-140			
Benzene	45.6 ug/L	1	ug/L	50.0	<1 ug/L	91.3	80-120			
Bromobenzene	48.2 ug/L	1	ug/L	50.0	<1 ug/L	96.4	75-125			
Bromochloromethane	44.5 ug/L	1	ug/L	50.0	<1 ug/L	88.9	65-130			
Bromodichloromethane	45.8 ug/L	0.5	ug/L	50.0	<0.5 ug/L	91.7	75-120			
Bromoform	51.9 ug/L	1	ug/L	50.0	<1 ug/L	104	70-130			
Bromomethane	48.8 ug/L	1	ug/L	50.0	<1 ug/L	97.5	30-145			
Carbon disulfide	36.2 ug/L	10	ug/L	50.0	<10 ug/L	72.4	35-160			
Carbon tetrachloride	43.6 ug/L	1	ug/L	50.0	<1 ug/L	87.2	65-140			
Chlorobenzene	48.7 ug/L	1	ug/L	50.0	<1 ug/L	97.4	80-120			
Chloroethane	50.1 ug/L	1	ug/L	50.0	<1 ug/L	100	60-135			
Chloroform	42.3 ug/L	0.5	ug/L	50.0	<0.5 ug/L	84.6	65-135			
Chloromethane	51.0 ug/L	1	ug/L	50.0	<1 ug/L	102	40-125			



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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0424 - SW5030B

Matrix Spike (BAK0424-MS1)

Source: 17K0409-01

Prepared & Analyzed: 11/14/2017

cis-1,2-Dichloroethylene	42.5 ug/L	1	ug/L	50.0	<1 ug/L	85.1	70-125			
cis-1,3-Dichloropropene	48.9 ug/L	1	ug/L	50.0	<1 ug/L	97.9	70-130			
Dibromochloromethane	46.3 ug/L	1	ug/L	50.0	<1 ug/L	92.6	60-135			
Dibromomethane	45.6 ug/L	1	ug/L	50.0	<1 ug/L	91.1	75-125			
Dichlorodifluoromethane	46.6 ug/L	1	ug/L	50.0	<1 ug/L	93.3	30-155			
Ethylbenzene	51.4 ug/L	1	ug/L	50.0	<1 ug/L	103	75-125			
Hexachlorobutadiene	48.8 ug/L	1	ug/L	50.0	<1 ug/L	97.5	50-140			
Isopropylbenzene	54.6 ug/L	1	ug/L	50.0	<1 ug/L	109	75-125			
m+p-Xylenes	101 ug/L	2	ug/L	100	<2 ug/L	101	75-130			
Methylene chloride	46.4 ug/L	4	ug/L	50.0	<4 ug/L	92.1	55-140			
Methyl-t-butyl ether (MTBE)	49.2 ug/L	1	ug/L	50.0	<1 ug/L	98.2	65-125			
Naphthalene	58.5 ug/L	1	ug/L	50.0	<1 ug/L	117	55-140			
n-Butylbenzene	55.8 ug/L	1	ug/L	50.0	<1 ug/L	112	70-135			
n-Propylbenzene	53.8 ug/L	1	ug/L	50.0	<1 ug/L	108	70-130			
o-Xylene	51.0 ug/L	1	ug/L	50.0	<1 ug/L	102	80-120			
sec-Butylbenzene	53.9 ug/L	1	ug/L	50.0	<1 ug/L	108	70-125			
Styrene	51.5 ug/L	1	ug/L	50.0	<1 ug/L	103	65-135			
tert-Butylbenzene	54.9 ug/L	1	ug/L	50.0	<1 ug/L	110	70-130			
Tetrachloroethylene (PCE)	66.2 ug/L	1	ug/L	50.0	<1 ug/L	132	45-150			
Toluene	44.3 ug/L	1	ug/L	50.0	<1 ug/L	88.5	75-120			
trans-1,2-Dichloroethylene	43.0 ug/L	1	ug/L	50.0	<1 ug/L	86.1	60-140			
trans-1,3-Dichloropropene	46.7 ug/L	1	ug/L	50.0	<1 ug/L	93.4	55-140			
Trichloroethylene	45.7 ug/L	1	ug/L	50.0	<1 ug/L	91.4	70-125			
Trichlorofluoromethane	43.1 ug/L	1	ug/L	50.0	<1 ug/L	86.2	60-145			
Vinyl chloride	45.8 ug/L	0.5	ug/L	50.0	<0.5 ug/L	91.5	50-145			
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Surr: 1,2-Dichloroethane-d4 (Surr)	48.2		ug/L	50.0	ug/L	96.4	70-120			
Surr: 4-Bromofluorobenzene (Surr)	50.0		ug/L	50.0	ug/L	99.9	75-120			
Surr: Dibromofluoromethane (Surr)	47.4		ug/L	50.0	ug/L	94.7	80-119			
Surr: Toluene-d8 (Surr)	50.5		ug/L	50.0	ug/L	101	85-120			



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Certificate of Analysis

Final Report

Client Name: Timmons Group	Date Issued: 11/20/2017 17:06
1001 Boulders Parkway, Suite 300	
Richmond VA, 23225	
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0424 - SW5030B

Matrix Spike Dup (BAK0424-MSD1)

Source: 17K0409-01

Prepared & Analyzed: 11/14/2017

1,1,1,2-Tetrachloroethane	49.2 ug/L	0.4	ug/L	50.0	<0.4 ug/L	98.5	80-130	1.64	30	
1,1,1-Trichloroethane	44.0 ug/L	1	ug/L	50.0	<1 ug/L	88.1	65-130	2.11	30	
1,1,2,2-Tetrachloroethane	50.7 ug/L	0.4	ug/L	50.0	<0.4 ug/L	101	65-130	0.574	30	
1,1,2-Trichloroethane	48.3 ug/L	1	ug/L	50.0	<1 ug/L	96.6	75-125	0.0828	30	
1,1-Dichloroethane	48.6 ug/L	1	ug/L	50.0	<1 ug/L	97.3	70-135	2.04	30	
1,1-Dichloroethylene	44.2 ug/L	1	ug/L	50.0	<1 ug/L	88.4	70-130	0.955	30	
1,1-Dichloropropene	45.9 ug/L	1	ug/L	50.0	<1 ug/L	91.8	75-135	4.27	30	
1,2,3-Trichlorobenzene	52.3 ug/L	1	ug/L	50.0	<1 ug/L	105	55-140	4.43	30	
1,2,3-Trichloropropane	51.4 ug/L	1	ug/L	50.0	<1 ug/L	103	75-125	0.485	30	
1,2,4-Trichlorobenzene	53.3 ug/L	1	ug/L	50.0	<1 ug/L	107	65-135	3.57	30	
1,2,4-Trimethylbenzene	55.4 ug/L	1	ug/L	50.0	<1 ug/L	111	75-130	3.79	30	
1,2-Dibromo-3-chloropropane (DBCP)	57.9 ug/L	4	ug/L	50.0	<4 ug/L	116	50-130	5.85	30	
1,2-Dibromoethane (EDB)	53.3 ug/L	1	ug/L	50.0	<1 ug/L	107	80-120	1.82	30	
1,2-Dichlorobenzene	51.5 ug/L	1	ug/L	50.0	<1 ug/L	103	70-120	6.53	30	
1,2-Dichloroethane	42.2 ug/L	1	ug/L	50.0	<1 ug/L	84.4	70-130	0.285	30	
1,2-Dichloropropane	47.4 ug/L	1	ug/L	50.0	<1 ug/L	94.9	75-125	0.613	30	
1,3,5-Trimethylbenzene	58.1 ug/L	1	ug/L	50.0	<1 ug/L	116	75-125	0.761	30	
1,3-Dichlorobenzene	50.8 ug/L	1	ug/L	50.0	<1 ug/L	102	75-125	5.19	30	
1,3-Dichloropropane	46.6 ug/L	1	ug/L	50.0	<1 ug/L	93.3	75-125	0.710	30	
1,4-Dichlorobenzene	49.5 ug/L	1	ug/L	50.0	<1 ug/L	99.0	75-125	6.59	30	
2,2-Dichloropropane	45.7 ug/L	2	ug/L	50.0	<2 ug/L	91.4	70-135	0.835	30	
2-Butanone (MEK)	44.6 ug/L	10	ug/L	50.0	<10 ug/L	89.3	30-150	14.8	30	
2-Chlorotoluene	55.4 ug/L	1	ug/L	50.0	<1 ug/L	111	75-125	6.32	30	
2-Hexanone (MBK)	53.7 ug/L	5	ug/L	50.0	<5 ug/L	107	55-130	1.52	30	
4-Chlorotoluene	53.6 ug/L	1	ug/L	50.0	<1 ug/L	107	75-130	7.06	30	
4-Isopropyltoluene	55.2 ug/L	1	ug/L	50.0	<1 ug/L	110	75-130	4.82	30	
4-Methyl-2-pentanone (MIBK)	49.2 ug/L	5	ug/L	50.0	<5 ug/L	98.5	60-135	1.58	30	
Acetone	51.4 ug/L	10	ug/L	50.0	<10 ug/L	98.3	40-140	4.82	30	
Benzene	46.1 ug/L	1	ug/L	50.0	<1 ug/L	92.2	80-120	1.00	30	
Bromobenzene	48.0 ug/L	1	ug/L	50.0	<1 ug/L	96.1	75-125	0.374	30	
Bromochloromethane	44.0 ug/L	1	ug/L	50.0	<1 ug/L	88.1	65-130	0.972	30	



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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0424 - SW5030B

Matrix Spike Dup (BAK0424-MSD1)

Source: 17K0409-01

Prepared & Analyzed: 11/14/2017

Bromodichloromethane	45.6 ug/L	0.5	ug/L	50.0	<0.5 ug/L	91.3	75-120	0.437	30	
Bromoform	50.5 ug/L	1	ug/L	50.0	<1 ug/L	101	70-130	2.71	30	
Bromomethane	46.8 ug/L	1	ug/L	50.0	<1 ug/L	93.7	30-145	4.04	30	
Carbon disulfide	36.8 ug/L	10	ug/L	50.0	<10 ug/L	73.5	35-160	1.51	30	
Carbon tetrachloride	43.6 ug/L	1	ug/L	50.0	<1 ug/L	87.1	65-140	0.0688	30	
Chlorobenzene	49.0 ug/L	1	ug/L	50.0	<1 ug/L	98.0	80-120	0.655	30	
Chloroethane	49.1 ug/L	1	ug/L	50.0	<1 ug/L	98.2	60-135	2.06	30	
Chloroform	42.8 ug/L	0.5	ug/L	50.0	<0.5 ug/L	85.7	65-135	1.32	30	
Chloromethane	50.8 ug/L	1	ug/L	50.0	<1 ug/L	102	40-125	0.413	30	
cis-1,2-Dichloroethylene	42.4 ug/L	1	ug/L	50.0	<1 ug/L	84.8	70-125	0.353	30	
cis-1,3-Dichloropropene	49.2 ug/L	1	ug/L	50.0	<1 ug/L	98.3	70-130	0.469	30	
Dibromochloromethane	46.8 ug/L	1	ug/L	50.0	<1 ug/L	93.7	60-135	1.16	30	
Dibromomethane	45.8 ug/L	1	ug/L	50.0	<1 ug/L	91.6	75-125	0.526	30	
Dichlorodifluoromethane	47.0 ug/L	1	ug/L	50.0	<1 ug/L	94.1	30-155	0.811	30	
Ethylbenzene	51.7 ug/L	1	ug/L	50.0	<1 ug/L	103	75-125	0.679	30	
Hexachlorobutadiene	50.7 ug/L	1	ug/L	50.0	<1 ug/L	101	50-140	3.92	30	
Isopropylbenzene	54.0 ug/L	1	ug/L	50.0	<1 ug/L	108	75-125	1.12	30	
m+p-Xylenes	102 ug/L	2	ug/L	100	<2 ug/L	101	75-130	0.405	30	
Methylene chloride	45.5 ug/L	4	ug/L	50.0	<4 ug/L	90.4	55-140	1.87	30	
Methyl-t-butyl ether (MTBE)	49.3 ug/L	1	ug/L	50.0	<1 ug/L	98.4	65-125	0.122	30	
Naphthalene	60.4 ug/L	1	ug/L	50.0	<1 ug/L	120	55-140	3.16	30	
n-Butylbenzene	57.5 ug/L	1	ug/L	50.0	<1 ug/L	115	70-135	3.00	30	
n-Propylbenzene	56.7 ug/L	1	ug/L	50.0	<1 ug/L	113	70-130	5.31	30	
o-Xylene	50.8 ug/L	1	ug/L	50.0	<1 ug/L	101	80-120	0.491	30	
sec-Butylbenzene	56.7 ug/L	1	ug/L	50.0	<1 ug/L	113	70-125	4.95	30	
Styrene	51.3 ug/L	1	ug/L	50.0	<1 ug/L	103	65-135	0.428	30	
tert-Butylbenzene	58.4 ug/L	1	ug/L	50.0	<1 ug/L	117	70-130	6.12	30	
Tetrachloroethylene (PCE)	66.8 ug/L	1	ug/L	50.0	<1 ug/L	134	45-150	0.858	30	
Toluene	44.9 ug/L	1	ug/L	50.0	<1 ug/L	89.9	75-120	1.50	30	
trans-1,2-Dichloroethylene	43.0 ug/L	1	ug/L	50.0	<1 ug/L	86.0	60-140	0.116	30	
trans-1,3-Dichloropropene	47.2 ug/L	1	ug/L	50.0	<1 ug/L	94.3	55-140	0.980	30	



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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0424 - SW5030B

Matrix Spike Dup (BAK0424-MSD1)

Source: 17K0409-01

Prepared & Analyzed: 11/14/2017

Trichloroethylene	44.9 ug/L	1	ug/L	50.0	<1 ug/L	89.8	70-125	1.83	30	
Trichlorofluoromethane	42.3 ug/L	1	ug/L	50.0	<1 ug/L	84.6	60-145	1.87	30	
Vinyl chloride	43.7 ug/L	0.5	ug/L	50.0	<0.5 ug/L	87.3	50-145	4.67	30	
<hr style="border-top: 1px dashed black;"/>										
Surr: 1,2-Dichloroethane-d4 (Surr)	49.7		ug/L	50.0	ug/L	99.5	70-120			
Surr: 4-Bromofluorobenzene (Surr)	49.6		ug/L	50.0	ug/L	99.2	75-120			
Surr: Dibromofluoromethane (Surr)	46.7		ug/L	50.0	ug/L	93.5	80-119			
Surr: Toluene-d8 (Surr)	50.7		ug/L	50.0	ug/L	101	85-120			



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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits RPD	RPD Limit	Qual
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Batch BAK0481 - SW3510C

Blank (BAK0481-BLK1)

Prepared: 11/16/2017 Analyzed: 11/17/2017

1,2,4,5-Tetrachlorobenzene	<10.0 ug/L	10.0	ug/L						
1,2,4-Trichlorobenzene	<10.0 ug/L	10.0	ug/L						
1,2-Dichlorobenzene	<10.0 ug/L	10.0	ug/L						
1,2-Diphenylhydrazine	<10.0 ug/L	10.0	ug/L						
1,3-Dichlorobenzene	<10.0 ug/L	10.0	ug/L						
1,3-Dinitrobenzene	<2.50 ug/L	2.50	ug/L						
1,4-Dichlorobenzene	<10.0 ug/L	10.0	ug/L						
1-Naphthylamine	<10.0 ug/L	10.0	ug/L						
2,3,4,6-Tetrachlorophenol	<10.0 ug/L	10.0	ug/L						
2,4,5-Trichlorophenol	<10.0 ug/L	10.0	ug/L						
2,4,6-Trichlorophenol	<10.0 ug/L	10.0	ug/L						
2,4-Dichlorophenol	<10.0 ug/L	10.0	ug/L						
2,4-Dimethylphenol	<0.50 ug/L	0.50	ug/L						
2,4-Dinitrophenol	<50.0 ug/L	50.0	ug/L						
2,4-Dinitrotoluene	<10.0 ug/L	10.0	ug/L						
2,6-Dichlorophenol	<10.0 ug/L	10.0	ug/L						
2,6-Dinitrotoluene	<10.0 ug/L	10.0	ug/L						
2-Chloronaphthalene	<10.0 ug/L	10.0	ug/L						
2-Chlorophenol	<10.0 ug/L	10.0	ug/L						
2-Methylnaphthalene	<10.0 ug/L	10.0	ug/L						
2-Naphthylamine	<10.0 ug/L	10.0	ug/L						
2-Nitroaniline	<20.0 ug/L	20.0	ug/L						
2-Nitrophenol	<10.0 ug/L	10.0	ug/L						
3,3'-Dichlorobenzidine	<10.0 ug/L	10.0	ug/L						
3-Methylcholanthrene	<10.0 ug/L	10.0	ug/L						
3-Nitroaniline	<20.0 ug/L	20.0	ug/L						
4,6-Dinitro-2-methylphenol	<50.0 ug/L	50.0	ug/L						
4-Aminobiphenyl	<10.0 ug/L	10.0	ug/L						
4-Bromophenyl phenyl ether	<10.0 ug/L	10.0	ug/L						
4-Chloroaniline	<10.0 ug/L	10.0	ug/L						
4-Chlorophenyl phenyl ether	<10.0 ug/L	10.0	ug/L						



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Certificate of Analysis

Final Report

Client Name: Timmons Group	Date Issued: 11/20/2017 17:06
1001 Boulders Parkway, Suite 300	
Richmond VA, 23225	
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0481 - SW3510C

Blank (BAK0481-BLK1)

Prepared: 11/16/2017 Analyzed: 11/17/2017

4-Nitroaniline	<20.0 ug/L	20.0	ug/L							
4-Nitrophenol	<50.0 ug/L	50.0	ug/L							
7,12-Dimethylbenz (a) anthracene	<10.0 ug/L	10.0	ug/L							
Acenaphthene	<10.0 ug/L	10.0	ug/L							
Acenaphthylene	<10.0 ug/L	10.0	ug/L							
Acetophenone	<20.0 ug/L	20.0	ug/L							
Aniline	<50.0 ug/L	50.0	ug/L							
Anthracene	<10.0 ug/L	10.0	ug/L							
Benzidine	<50.0 ug/L	50.0	ug/L							
Benzo (a) anthracene	<10.0 ug/L	10.0	ug/L							
Benzo (a) pyrene	<10.0 ug/L	10.0	ug/L							
Benzo (b) fluoranthene	<10.0 ug/L	10.0	ug/L							
Benzo (g,h,i) perylene	<10.0 ug/L	10.0	ug/L							
Benzo (k) fluoranthene	<10.0 ug/L	10.0	ug/L							
Benzoic acid	<50.0 ug/L	50.0	ug/L							
Benzyl alcohol	<20.0 ug/L	20.0	ug/L							
bis (2-Chloroethoxy) methane	<10.0 ug/L	10.0	ug/L							
bis (2-Chloroethyl) ether	<10.0 ug/L	10.0	ug/L							
2,2'-Oxybis (1-chloropropane)	<10.0 ug/L	10.0	ug/L							
bis (2-Ethylhexyl) phthalate	<10.0 ug/L	10.0	ug/L							
Butyl benzyl phthalate	<10.0 ug/L	10.0	ug/L							
Chrysene	<10.0 ug/L	10.0	ug/L							
Dibenz (a,h) anthracene	<10.0 ug/L	10.0	ug/L							
Dibenz (a,j) acridine	<10.0 ug/L	10.0	ug/L							
Dibenzofuran	<5.00 ug/L	5.00	ug/L							
Diethyl phthalate	<10.0 ug/L	10.0	ug/L							
Dimethyl phthalate	<10.0 ug/L	10.0	ug/L							
Di-n-butyl phthalate	<10.0 ug/L	10.0	ug/L							
Di-n-octyl phthalate	<10.0 ug/L	10.0	ug/L							
Diphenylamine	<10.0 ug/L	10.0	ug/L							
Ethyl methanesulfonate	<20.0 ug/L	20.0	ug/L							



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Client Site I.D.: East Main Street Parcels	Purchase Order:

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0481 - SW3510C

Blank (BAK0481-BLK1)

Prepared: 11/16/2017 Analyzed: 11/17/2017

Fluoranthene	<10.0 ug/L	10.0	ug/L							
Fluorene	<10.0 ug/L	10.0	ug/L							
Hexachlorobenzene	<1.00 ug/L	1.00	ug/L							
Hexachlorobutadiene	<10.0 ug/L	10.0	ug/L							
Hexachlorocyclopentadiene	<10.0 ug/L	10.0	ug/L							
Hexachloroethane	<10.0 ug/L	10.0	ug/L							
Indeno (1,2,3-cd) pyrene	<10.0 ug/L	10.0	ug/L							
Isophorone	<10.0 ug/L	10.0	ug/L							
m+p-Cresols	<10.0 ug/L	10.0	ug/L							
Methyl methanesulfonate	<10.0 ug/L	10.0	ug/L							
Naphthalene	<5.00 ug/L	5.00	ug/L							
Nitrobenzene	<10.0 ug/L	10.0	ug/L							
n-Nitrosodimethylamine	<10.0 ug/L	10.0	ug/L							
n-Nitrosodi-n-butylamine	<10.0 ug/L	10.0	ug/L							
n-Nitrosodi-n-propylamine	<10.0 ug/L	10.0	ug/L							
n-Nitrosodiphenylamine	<10.0 ug/L	10.0	ug/L							
n-Nitrosopiperidine	<10.0 ug/L	10.0	ug/L							
o+m+p-Cresols	<10.0 ug/L	10.0	ug/L							
o-Cresol	<10.0 ug/L	10.0	ug/L							
p-(Dimethylamino) azobenzene	<2.50 ug/L	2.50	ug/L							
p-Chloro-m-cresol	<10.0 ug/L	10.0	ug/L							
Pentachloronitrobenzene (quintozene)	<10.0 ug/L	10.0	ug/L							
Pentachlorophenol	<20.0 ug/L	20.0	ug/L							
Phenacetin	<10.0 ug/L	10.0	ug/L							
Phenanthrene	<10.0 ug/L	10.0	ug/L							
Phenol	<10.0 ug/L	10.0	ug/L							
Pronamide	<10.0 ug/L	10.0	ug/L							
Pyrene	<10.0 ug/L	10.0	ug/L							
Pyridine	<10.0 ug/L	10.0	ug/L							
<hr style="border-top: 1px dashed black;"/>										
Surr: 2,4,6-Tribromophenol (Surr)	53.1		ug/L	100		53.1	20-86			
Surr: 2-Fluorobiphenyl (Surr)	31.6		ug/L	50.0		63.1	23-87			



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Richmond VA, 23225	
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0481 - SW3510C

Blank (BAK0481-BLK1)

Prepared: 11/16/2017 Analyzed: 11/17/2017

Surr: 2-Fluorophenol (Surr)	41.6		ug/L	100		41.6	10-52			
Surr: Nitrobenzene-d5 (Surr)	30.2		ug/L	50.0		60.3	10-98.5			
Surr: Phenol-d5 (Surr)	27.5		ug/L	100		27.5	5-33			
Surr: p-Terphenyl-d14 (Surr)	35.8		ug/L	50.0		71.6	27-133			

LCS (BAK0481-BS1)

Prepared: 11/16/2017 Analyzed: 11/17/2017

1,2,4-Trichlorobenzene	55.6 ug/L	10.0	ug/L	100	ug/L	55.6	21.8-66.7
1,2-Dichlorobenzene	52.0 ug/L	10.0	ug/L	100	ug/L	52.0	22-60
1,3-Dichlorobenzene	48.7 ug/L	10.0	ug/L	100	ug/L	48.7	22-60
1,4-Dichlorobenzene	49.5 ug/L	10.0	ug/L	100	ug/L	49.5	13-68
1-Chloronaphthalene	68.0 ug/L	10.0	ug/L		ug/L		0-200
2,4,6-Trichlorophenol	60.2 ug/L	10.0	ug/L	100	ug/L	60.2	50-115
2,4-Dichlorophenol	61.0 ug/L	10.0	ug/L	100	ug/L	61.0	50-105
2,4-Dimethylphenol	51.3 ug/L	0.50	ug/L	100	ug/L	51.3	30-110
2,4-Dinitrophenol	94.4 ug/L	50.0	ug/L	100	ug/L	94.4	15-140
2,4-Dinitrotoluene	82.2 ug/L	10.0	ug/L	100	ug/L	82.2	21-99
2,6-Dinitrotoluene	70.6 ug/L	10.0	ug/L	100	ug/L	70.6	15-140
2-Chloronaphthalene	62.7 ug/L	10.0	ug/L	100	ug/L	62.7	45-105
2-Chlorophenol	53.6 ug/L	10.0	ug/L	100	ug/L	53.6	15-74
2-Nitrophenol	55.7 ug/L	10.0	ug/L	100	ug/L	55.7	40-115
3,3'-Dichlorobenzidine	80.6 ug/L	10.0	ug/L	100	ug/L	80.6	20-110
4,6-Dinitro-2-methylphenol	92.4 ug/L	50.0	ug/L	100	ug/L	92.4	40-130
4-Bromophenyl phenyl ether	71.8 ug/L	10.0	ug/L	100	ug/L	71.8	15-110
4-Chlorophenyl phenyl ether	71.5 ug/L	10.0	ug/L	100	ug/L	71.5	15-110
4-Nitrophenol	<50.0 ug/L	50.0	ug/L	100	ug/L	41.4	0-125
Acenaphthene	68.3 ug/L	10.0	ug/L	100	ug/L	68.3	27.7-85.5
Acenaphthylene	71.0 ug/L	10.0	ug/L	100	ug/L	71.0	50-105
Acetophenone	54.2 ug/L	20.0	ug/L	100	ug/L	54.2	0-200
alpha-Terpineol	68.3 ug/L	2.50	ug/L	100	ug/L	68.3	0-200
Anthracene	68.8 ug/L	10.0	ug/L	100	ug/L	68.8	55-110
Benzo (a) anthracene	66.3 ug/L	10.0	ug/L	100	ug/L	66.3	55-110



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Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0481 - SW3510C

LCS (BAK0481-BS1)

Prepared: 11/16/2017 Analyzed: 11/17/2017

Benzo (a) pyrene	80.0 ug/L	10.0	ug/L	100	ug/L	80.0	55-110			
Benzo (b) fluoranthene	84.1 ug/L	10.0	ug/L	100	ug/L	84.1	45-120			
Benzo (g,h,i) perylene	66.6 ug/L	10.0	ug/L	100	ug/L	66.6	40-125			
Benzo (k) fluoranthene	79.4 ug/L	10.0	ug/L	100	ug/L	79.4	45-125			
bis (2-Chloroethoxy) methane	60.5 ug/L	10.0	ug/L	100	ug/L	60.5	40-125			
bis (2-Chloroethyl) ether	58.5 ug/L	10.0	ug/L	100	ug/L	58.5	40-125			
2,2'-Oxybis (1-chloropropane)	54.3 ug/L	10.0	ug/L	100	ug/L	54.3	40-125			
bis (2-Ethylhexyl) phthalate	60.7 ug/L	10.0	ug/L	100	ug/L	60.7	40-125			
Butyl benzyl phthalate	63.1 ug/L	10.0	ug/L	100	ug/L	63.1	45-115			
Carbazole	93.2 ug/L	2.50	ug/L	100	ug/L	93.2	0-200			
Chrysene	73.5 ug/L	10.0	ug/L	100	ug/L	73.5	55-110			
Dibenz (a,h) anthracene	78.5 ug/L	10.0	ug/L	100	ug/L	78.5	40-125			
Diethyl phthalate	72.5 ug/L	10.0	ug/L	100	ug/L	72.5	40-120			
Dimethyl phthalate	70.0 ug/L	10.0	ug/L	100	ug/L	70.0	25-125			
Di-n-butyl phthalate	68.0 ug/L	10.0	ug/L	100	ug/L	68.0	55-115			
Di-n-octyl phthalate	52.3 ug/L	10.0	ug/L	100	ug/L	52.3	35-135			
Fluoranthene	78.7 ug/L	10.0	ug/L	100	ug/L	78.7	55-115			
Fluorene	71.8 ug/L	10.0	ug/L	100	ug/L	71.8	50-110			
Hexachlorobenzene	69.9 ug/L	1.00	ug/L	100	ug/L	69.9	25-125			
Hexachlorobutadiene	61.8 ug/L	10.0	ug/L	100	ug/L	61.8	25-125			
Hexachlorocyclopentadiene	26.2 ug/L	10.0	ug/L	100	ug/L	26.2	25-125			
Hexachloroethane	42.1 ug/L	10.0	ug/L	100	ug/L	42.1	25-125			
Indeno (1,2,3-cd) pyrene	74.8 ug/L	10.0	ug/L	100	ug/L	74.8	45-125			
Isophorone	60.0 ug/L	10.0	ug/L	100	ug/L	60.0	10-110			
Naphthalene	58.2 ug/L	5.00	ug/L	100	ug/L	58.2	40-100			
Nitrobenzene	58.5 ug/L	10.0	ug/L	100	ug/L	58.5	40-100			
n-Nitrosodimethylamine	39.4 ug/L	10.0	ug/L	100	ug/L	39.4	25-110			
n-Nitrosodi-n-propylamine	58.7 ug/L	10.0	ug/L	100	ug/L	58.7	12-97			
n-Nitrosodiphenylamine	63.0 ug/L	10.0	ug/L	100	ug/L	63.0	12-97			
p-Chloro-m-cresol	65.1 ug/L	10.0	ug/L	100	ug/L	65.1	10-91			
Pentachlorophenol	71.7 ug/L	20.0	ug/L	100	ug/L	71.7	30-109			



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Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0481 - SW3510C

LCS (BAK0481-BS1)

Prepared: 11/16/2017 Analyzed: 11/17/2017

Phenanthrene	68.8 ug/L	10.0	ug/L	100	ug/L	68.8	50-115			
Phenol	30.8 ug/L	10.0	ug/L	101	ug/L	30.5	0-115			
Pyrene	50.4 ug/L	10.0	ug/L	100	ug/L	50.4	27-110			
Pyridine	28.8 ug/L	10.0	ug/L	100	ug/L	28.8	0-200			
<hr style="border-top: 1px dashed black;"/>										
Surr: 2,4,6-Tribromophenol (Surr)	66.2		ug/L	100	ug/L	66.2	20-86			
Surr: 2-Fluorobiphenyl (Surr)	31.4		ug/L	50.0	ug/L	62.7	23-87			
Surr: 2-Fluorophenol (Surr)	40.3		ug/L	100	ug/L	40.3	10-52			
Surr: Nitrobenzene-d5 (Surr)	29.4		ug/L	50.0	ug/L	58.8	10-98.5			
Surr: Phenol-d5 (Surr)	28.9		ug/L	100	ug/L	28.9	5-33			
Surr: p-Terphenyl-d14 (Surr)	39.4		ug/L	50.0	ug/L	78.7	27-133			

Matrix Spike (BAK0481-MS1)

Source: 17K0424-09

Prepared: 11/16/2017 Analyzed: 11/17/2017

1,2,4-Trichlorobenzene	41.0 ug/L	10.4	ug/L	104	<10.4 ug/L	39.3	21.8-66.7			
1,2-Dichlorobenzene	41.7 ug/L	10.4	ug/L	104	<10.4 ug/L	40.0	22-60			
1,3-Dichlorobenzene	39.7 ug/L	10.4	ug/L	104	<10.4 ug/L	38.1	22-60			
1,4-Dichlorobenzene	40.3 ug/L	10.4	ug/L	104	<10.4 ug/L	38.7	22-60			
1-Chloronaphthalene	46.1 ug/L	10.4	ug/L		<10.4 ug/L		0-200			
2,4,6-Trichlorophenol	41.4 ug/L	10.4	ug/L	104	<10.4 ug/L	39.7	50-115			M
2,4-Dichlorophenol	41.4 ug/L	10.4	ug/L	104	<10.4 ug/L	39.8	50-105			M
2,4-Dimethylphenol	35.0 ug/L	0.52	ug/L	104	<0.52 ug/L	33.6	30-110			
2,4-Dinitrophenol	90.2 ug/L	52.1	ug/L	104	<52.1 ug/L	86.6	15-140			
2,6-Dinitrotoluene	57.8 ug/L	10.4	ug/L	104	<10.4 ug/L	55.5	15-140			
2-Chloronaphthalene	42.6 ug/L	10.4	ug/L	104	<10.4 ug/L	40.9	45-105			M
2-Chlorophenol	40.1 ug/L	10.4	ug/L	104	<10.4 ug/L	38.5	19-64			
2-Nitrophenol	40.4 ug/L	10.4	ug/L	104	<10.4 ug/L	38.7	40-115			M
3,3'-Dichlorobenzidine	74.9 ug/L	10.4	ug/L	104	<10.4 ug/L	71.9	20-110			
4,6-Dinitro-2-methylphenol	90.9 ug/L	52.1	ug/L	104	<52.1 ug/L	87.2	40-130			
4-Bromophenyl phenyl ether	59.0 ug/L	10.4	ug/L	104	<10.4 ug/L	56.6	15-110			
4-Chlorophenyl phenyl ether	52.5 ug/L	10.4	ug/L	104	<10.4 ug/L	50.4	15-110			
4-Nitrophenol	<52.1 ug/L	52.1	ug/L	104	<52.1 ug/L	32.6	0-125			
Acenaphthene	46.5 ug/L	10.4	ug/L	104	<10.4 ug/L	44.6	24-90			



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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0481 - SW3510C

Matrix Spike (BAK0481-MS1)

Source: 17K0424-09

Prepared: 11/16/2017 Analyzed: 11/17/2017

Acenaphthylene	49.7 ug/L	10.4	ug/L	104	<10.4 ug/L	47.7	50-105			M
Acetophenone	39.7 ug/L	20.8	ug/L	104	<20.8 ug/L	38.1	0-200			
alpha-Terpineol	45.4 ug/L	2.60	ug/L	104	<2.60 ug/L	43.6	0-200			
Anthracene	61.6 ug/L	10.4	ug/L	104	<10.4 ug/L	59.1	55-110			
Benzo (a) anthracene	63.6 ug/L	10.4	ug/L	104	<10.4 ug/L	61.0	55-110			
Benzo (a) pyrene	73.0 ug/L	10.4	ug/L	104	<10.4 ug/L	70.1	55-110			
Benzo (b) fluoranthene	79.6 ug/L	10.4	ug/L	104	<10.4 ug/L	76.4	45-120			
Benzo (g,h,i) perylene	61.4 ug/L	10.4	ug/L	104	<10.4 ug/L	59.0	40-125			
Benzo (k) fluoranthene	71.3 ug/L	10.4	ug/L	104	<10.4 ug/L	68.4	45-125			
bis (2-Chloroethoxy) methane	40.0 ug/L	10.4	ug/L	104	<10.4 ug/L	38.4	40-125			M
bis (2-Chloroethyl) ether	43.3 ug/L	10.4	ug/L	104	<10.4 ug/L	41.6	40-125			
2,2'-Oxybis (1-chloropropane)	39.7 ug/L	10.4	ug/L	104	<10.4 ug/L	38.1	40-125			M
bis (2-Ethylhexyl) phthalate	58.1 ug/L	10.4	ug/L	104	<10.4 ug/L	55.8	40-125			
Butyl benzyl phthalate	59.6 ug/L	10.4	ug/L	104	<10.4 ug/L	57.2	45-115			
Carbazole	90.6 ug/L	2.60	ug/L	104	<2.60 ug/L	87.0	0-200			
Chrysene	70.5 ug/L	10.4	ug/L	104	<10.4 ug/L	67.6	55-110			
Dibenz (a,h) anthracene	72.3 ug/L	10.4	ug/L	104	<10.4 ug/L	69.4	40-125			
Diethyl phthalate	64.8 ug/L	10.4	ug/L	104	<10.4 ug/L	62.2	40-120			
Dimethyl phthalate	54.9 ug/L	10.4	ug/L	104	<10.4 ug/L	52.7	25-125			
Di-n-butyl phthalate	55.8 ug/L	10.4	ug/L	104	<10.4 ug/L	53.5	55-115			M
Di-n-octyl phthalate	50.3 ug/L	10.4	ug/L	104	<10.4 ug/L	48.3	35-135			
Fluoranthene	68.9 ug/L	10.4	ug/L	104	<10.4 ug/L	66.1	55-115			
Fluorene	55.6 ug/L	10.4	ug/L	104	<10.4 ug/L	53.3	50-110			
Hexachlorobenzene	61.3 ug/L	1.04	ug/L	104	<1.04 ug/L	58.8	25-125			
Hexachlorobutadiene	46.9 ug/L	10.4	ug/L	104	<10.4 ug/L	45.0	25-125			
Hexachlorocyclopentadiene	17.7 ug/L	10.4	ug/L	104	<10.4 ug/L	17.0	25-125			M
Hexachloroethane	34.3 ug/L	10.4	ug/L	104	<10.4 ug/L	32.9	25-125			
Indeno (1,2,3-cd) pyrene	68.7 ug/L	10.4	ug/L	104	<10.4 ug/L	66.0	45-125			
Isophorone	40.0 ug/L	10.4	ug/L	104	<10.4 ug/L	38.4	10-110			
Naphthalene	43.8 ug/L	5.21	ug/L	104	<5.21 ug/L	42.1	40-100			
Nitrobenzene	42.8 ug/L	10.4	ug/L	104	<10.4 ug/L	41.1	40-100			



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Certificate of Analysis

Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 11/20/2017 17:06
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0481 - SW3510C

Matrix Spike (BAK0481-MS1)

Source: 17K0424-09

Prepared: 11/16/2017 Analyzed: 11/17/2017

n-Nitrosodimethylamine	26.7 ug/L	10.4	ug/L	104	<10.4 ug/L	25.7	25-110			
n-Nitrosodi-n-propylamine	40.6 ug/L	10.4	ug/L	104	<10.4 ug/L	39.0	12-97			
n-Nitrosodiphenylamine	54.5 ug/L	10.4	ug/L	104	<10.4 ug/L	52.3	12-97			
p-Chloro-m-cresol	45.0 ug/L	10.4	ug/L	104	<10.4 ug/L	43.2	10-91			
Pentachlorophenol	68.0 ug/L	20.8	ug/L	104	<20.8 ug/L	65.2	27-109			
Phenanthrene	63.2 ug/L	10.4	ug/L	104	<10.4 ug/L	60.6	50-115			
Phenol	19.4 ug/L	10.4	ug/L	105	<10.4 ug/L	18.4	0-115			
Pyrene	47.9 ug/L	10.4	ug/L	104	<10.4 ug/L	46.0	23-110			
Pyridine	23.9 ug/L	10.4	ug/L	104	<10.4 ug/L	23.0	0-200			
<hr style="border-top: 1px dashed black;"/>										
Surr: 2,4,6-Tribromophenol (Surr)	59.3		ug/L	104	ug/L	56.9	20-86			
Surr: 2-Fluorobiphenyl (Surr)	21.5		ug/L	52.1	ug/L	41.3	23-87			
Surr: 2-Fluorophenol (Surr)	28.4		ug/L	104	ug/L	27.2	10-52			
Surr: Nitrobenzene-d5 (Surr)	22.0		ug/L	52.1	ug/L	42.3	10-98.5			
Surr: Phenol-d5 (Surr)	18.3		ug/L	104	ug/L	17.5	5-33			
Surr: p-Terphenyl-d14 (Surr)	38.9		ug/L	52.1	ug/L	74.7	27-133			

Matrix Spike Dup (BAK0481-MSD1)

Source: 17K0424-09

Prepared: 11/16/2017 Analyzed: 11/17/2017

1,2,4-Trichlorobenzene	69.3 ug/L	10.4	ug/L	104	<10.4 ug/L	66.5	21.8-66.7	51.4	20	P
1,2-Dichlorobenzene	67.2 ug/L	10.4	ug/L	104	<10.4 ug/L	64.5	22-60	46.8	20	M, P
1,3-Dichlorobenzene	65.1 ug/L	10.4	ug/L	104	<10.4 ug/L	62.5	22-60	48.6	20	M, P
1,4-Dichlorobenzene	65.1 ug/L	10.4	ug/L	104	<10.4 ug/L	62.5	22-60	47.0	20	M, P
1-Chloronaphthalene	78.4 ug/L	10.4	ug/L		<10.4 ug/L		0-200	52.0	20	P
2,4,6-Trichlorophenol	68.8 ug/L	10.4	ug/L	104	<10.4 ug/L	66.0	50-115	49.7	20	P
2,4-Dichlorophenol	71.7 ug/L	10.4	ug/L	104	<10.4 ug/L	68.8	50-105	53.6	20	P
2,4-Dimethylphenol	56.4 ug/L	0.52	ug/L	104	<0.52 ug/L	54.1	30-110	46.8	20	P
2,4-Dinitrophenol	101 ug/L	52.1	ug/L	104	<52.1 ug/L	97.0	15-140	11.3	20	
2,4-Dinitrotoluene	85.9 ug/L	10.4	ug/L	104	<10.4 ug/L	82.5	17-111	192	20	P
2,6-Dinitrotoluene	76.3 ug/L	10.4	ug/L	104	<10.4 ug/L	73.2	15-140	27.5	20	P
2-Chloronaphthalene	72.3 ug/L	10.4	ug/L	104	<10.4 ug/L	69.4	45-105	51.8	20	P
2-Chlorophenol	63.6 ug/L	10.4	ug/L	104	<10.4 ug/L	61.0	19-64	45.4	20	P
2-Nitrophenol	67.8 ug/L	10.4	ug/L	104	<10.4 ug/L	65.1	40-115	50.7	20	P



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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0481 - SW3510C

Matrix Spike Dup (BAK0481-MSD1)

Source: 17K0424-09

Prepared: 11/16/2017 Analyzed: 11/17/2017

3,3'-Dichlorobenzidine	79.4 ug/L	10.4	ug/L	104	<10.4 ug/L	76.2	20-110	5.77	20	
4,6-Dinitro-2-methylphenol	97.5 ug/L	52.1	ug/L	104	<52.1 ug/L	93.6	40-130	7.01	20	
4-Bromophenyl phenyl ether	73.6 ug/L	10.4	ug/L	104	<10.4 ug/L	70.7	15-110	22.1	20	P
4-Chlorophenyl phenyl ether	76.3 ug/L	10.4	ug/L	104	<10.4 ug/L	73.3	15-110	37.0	20	P
4-Nitrophenol	<52.1 ug/L	52.1	ug/L	104	<52.1 ug/L	35.2	0-125	7.76	20	
Acenaphthene	76.8 ug/L	10.4	ug/L	104	<10.4 ug/L	73.7	24-90	49.1	20	P
Acenaphthylene	80.1 ug/L	10.4	ug/L	104	<10.4 ug/L	76.9	50-105	46.9	20	P
Acetophenone	60.2 ug/L	20.8	ug/L	104	<20.8 ug/L	57.8	0-200	41.1	20	P
alpha-Terpineol	77.5 ug/L	2.60	ug/L	104	<2.60 ug/L	74.4	0-200	52.3	20	P
Anthracene	68.4 ug/L	10.4	ug/L	104	<10.4 ug/L	65.7	55-110	10.5	20	
Benzo (a) anthracene	69.7 ug/L	10.4	ug/L	104	<10.4 ug/L	66.9	55-110	9.19	20	
Benzo (a) pyrene	83.5 ug/L	10.4	ug/L	104	<10.4 ug/L	80.1	55-110	13.3	20	
Benzo (b) fluoranthene	84.2 ug/L	10.4	ug/L	104	<10.4 ug/L	80.8	45-120	5.58	20	
Benzo (g,h,i) perylene	63.7 ug/L	10.4	ug/L	104	<10.4 ug/L	61.1	40-125	3.58	20	
Benzo (k) fluoranthene	87.9 ug/L	10.4	ug/L	104	<10.4 ug/L	84.4	45-125	20.9	20	P
bis (2-Chloroethoxy) methane	70.8 ug/L	10.4	ug/L	104	<10.4 ug/L	68.0	40-125	55.6	20	P
bis (2-Chloroethyl) ether	70.3 ug/L	10.4	ug/L	104	<10.4 ug/L	67.5	40-125	47.5	20	P
2,2'-Oxybis (1-chloropropane)	65.1 ug/L	10.4	ug/L	104	<10.4 ug/L	62.5	40-125	48.3	20	P
bis (2-Ethylhexyl) phthalate	62.5 ug/L	10.4	ug/L	104	<10.4 ug/L	60.0	40-125	7.26	20	
Butyl benzyl phthalate	62.9 ug/L	10.4	ug/L	104	<10.4 ug/L	60.4	45-115	5.44	20	
Carbazole	98.0 ug/L	2.60	ug/L	104	<2.60 ug/L	94.1	0-200	7.83	20	
Chrysene	77.3 ug/L	10.4	ug/L	104	<10.4 ug/L	74.2	55-110	9.25	20	
Dibenz (a,h) anthracene	76.2 ug/L	10.4	ug/L	104	<10.4 ug/L	73.2	40-125	5.34	20	
Diethyl phthalate	74.9 ug/L	10.4	ug/L	104	<10.4 ug/L	71.9	40-120	14.4	20	
Dimethyl phthalate	73.8 ug/L	10.4	ug/L	104	<10.4 ug/L	70.8	25-125	29.3	20	P
Di-n-butyl phthalate	63.8 ug/L	10.4	ug/L	104	<10.4 ug/L	61.2	55-115	13.4	20	
Di-n-octyl phthalate	55.0 ug/L	10.4	ug/L	104	<10.4 ug/L	52.8	35-135	8.95	20	
Fluoranthene	79.5 ug/L	10.4	ug/L	104	<10.4 ug/L	76.3	55-115	14.3	20	
Fluorene	78.0 ug/L	10.4	ug/L	104	<10.4 ug/L	74.9	50-110	33.7	20	P
Hexachlorobenzene	70.6 ug/L	1.04	ug/L	104	<1.04 ug/L	67.8	25-125	14.1	20	
Hexachlorobutadiene	78.3 ug/L	10.4	ug/L	104	<10.4 ug/L	75.2	25-125	50.2	20	P



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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0481 - SW3510C

Matrix Spike Dup (BAK0481-MSD1)

Source: 17K0424-09

Prepared: 11/16/2017 Analyzed: 11/17/2017

Hexachlorocyclopentadiene	31.0 ug/L	10.4	ug/L	104	<10.4 ug/L	29.8	25-125	54.8	20	P
Hexachloroethane	55.3 ug/L	10.4	ug/L	104	<10.4 ug/L	53.1	25-125	47.0	20	P
Indeno (1,2,3-cd) pyrene	72.5 ug/L	10.4	ug/L	104	<10.4 ug/L	69.6	45-125	5.35	20	
Isophorone	69.6 ug/L	10.4	ug/L	104	<10.4 ug/L	66.8	10-110	54.1	20	P
Naphthalene	70.2 ug/L	5.21	ug/L	104	<5.21 ug/L	67.4	40-100	46.2	20	P
Nitrobenzene	68.0 ug/L	10.4	ug/L	104	<10.4 ug/L	65.3	40-100	45.4	20	P
n-Nitrosodimethylamine	37.2 ug/L	10.4	ug/L	104	<10.4 ug/L	35.7	25-110	32.7	20	P
n-Nitrosodi-n-propylamine	66.5 ug/L	10.4	ug/L	104	<10.4 ug/L	63.8	12-97	48.2	20	P
n-Nitrosodiphenylamine	65.3 ug/L	10.4	ug/L	104	<10.4 ug/L	62.6	12-97	18.0	20	
p-Chloro-m-cresol	73.0 ug/L	10.4	ug/L	104	<10.4 ug/L	70.1	10-91	47.4	20	P
Pentachlorophenol	72.9 ug/L	20.8	ug/L	104	<20.8 ug/L	70.0	27-109	7.08	20	
Phenanthrene	72.4 ug/L	10.4	ug/L	104	<10.4 ug/L	69.5	50-115	13.6	20	
Phenol	30.2 ug/L	10.4	ug/L	105	<10.4 ug/L	28.7	0-115	43.6	20	P
Pyrene	52.8 ug/L	10.4	ug/L	104	<10.4 ug/L	50.7	23-110	9.78	20	
Pyridine	29.2 ug/L	10.4	ug/L	104	<10.4 ug/L	28.0	0-200	19.9	20	
<hr style="border-top: 1px dashed black;"/>										
Surr: 2,4,6-Tribromophenol (Surr)	67.1		ug/L	104	ug/L	64.4	20-86			
Surr: 2-Fluorobiphenyl (Surr)	36.6		ug/L	52.1	ug/L	70.3	23-87			
Surr: 2-Fluorophenol (Surr)	43.1		ug/L	104	ug/L	41.4	10-52			
Surr: Nitrobenzene-d5 (Surr)	33.6		ug/L	52.1	ug/L	64.6	10-98.5			
Surr: Phenol-d5 (Surr)	27.2		ug/L	104	ug/L	26.1	5-33			
Surr: p-Terphenyl-d14 (Surr)	39.7		ug/L	52.1	ug/L	76.2	27-133			



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Certificate of Analysis

Final Report

Client Name: Timmons Group	Date Issued: 11/20/2017 17:06
1001 Boulders Parkway, Suite 300	
Richmond VA, 23225	
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Semivolatile Hydrocarbons by GC - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0451 - SW3510C

Blank (BAK0451-BLK1)

Prepared & Analyzed: 11/15/2017

TPH-Semi-Volatiles (DRO)	<0.500 mg/L	0.500	mg/L							
<i>Surr: Pentacosane (Surr)</i>	0.204		mg/L	0.250		81.5	40-160			

LCS (BAK0451-BS1)

Prepared & Analyzed: 11/15/2017

TPH-Semi-Volatiles (DRO)	3.8 mg/L	0.500	mg/L	5.00	mg/L	76.2	40-160			
<i>Surr: Pentacosane (Surr)</i>	0.181		mg/L	0.250	mg/L	72.3	40-160			

Matrix Spike (BAK0451-MS1)

Source: 17K0391-01

Prepared & Analyzed: 11/15/2017

TPH-Semi-Volatiles (DRO)	4.3 mg/L	0.538	mg/L	5.38	<0.538 mg/L	79.4	40-160			
<i>Surr: Pentacosane (Surr)</i>	0.219		mg/L	0.269	mg/L	81.4	40-160			

Matrix Spike Dup (BAK0451-MSD1)

Source: 17K0391-01

Prepared & Analyzed: 11/15/2017

TPH-Semi-Volatiles (DRO)	4.2 mg/L	0.543	mg/L	5.43	<0.543 mg/L	77.3	40-160	1.62	20	
<i>Surr: Pentacosane (Surr)</i>	0.209		mg/L	0.272	mg/L	77.0	40-160			

Batch BAK0453 - SW3510C

Blank (BAK0453-BLK1)

Prepared: 11/15/2017 Analyzed: 11/16/2017

TPH-Semi-Volatiles (ORO)	<1.0 mg/L	1.0	mg/L							
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LCS (BAK0453-BS1)

Prepared: 11/15/2017 Analyzed: 11/16/2017

TPH-Semi-Volatiles (ORO)	2.7 mg/L	1.0	mg/L	5.00	mg/L	53.2	40-160			
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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0419 - SW3510C

Blank (BAK0419-BLK1)

Prepared & Analyzed: 11/15/2017

4,4'-DDD	<0.050 ug/L	0.050	ug/L							
4,4'-DDE	<0.050 ug/L	0.050	ug/L							
4,4'-DDT	<0.050 ug/L	0.050	ug/L							
Aldrin	<0.050 ug/L	0.050	ug/L							
alpha-BHC	<0.050 ug/L	0.050	ug/L							
beta-BHC	<0.050 ug/L	0.050	ug/L							
Chlordane	<0.200 ug/L	0.200	ug/L							
delta-BHC	<0.050 ug/L	0.050	ug/L							
Dieldrin	<0.050 ug/L	0.050	ug/L							
Endosulfan I	<0.050 ug/L	0.050	ug/L							
Endosulfan II	<0.050 ug/L	0.050	ug/L							
Endosulfan sulfate	<0.050 ug/L	0.050	ug/L							
Endrin	<0.050 ug/L	0.050	ug/L							
Endrin aldehyde	<0.050 ug/L	0.050	ug/L							
gamma-BHC (Lindane)	<0.050 ug/L	0.050	ug/L							
Heptachlor	<0.050 ug/L	0.050	ug/L							
Heptachlor epoxide	<0.050 ug/L	0.050	ug/L							
Methoxychlor	<0.050 ug/L	0.050	ug/L							
Toxaphene	<1.00 ug/L	1.00	ug/L							
<hr/>										
Surr: TCMX	0.150		ug/L	0.200		75.0	18-112			
Surr: DCB	0.170		ug/L	0.200		85.0	27-131			

LCS (BAK0419-BS1)

Prepared & Analyzed: 11/15/2017

4,4'-DDD	0.080 ug/L	0.050	ug/L	0.100	ug/L	80.0	23-134			
4,4'-DDE	0.100 ug/L	0.050	ug/L	0.100	ug/L	100	23-134			
4,4'-DDT	0.090 ug/L	0.050	ug/L	0.100	ug/L	90.0	23-134			
Aldrin	0.070 ug/L	0.050	ug/L	0.100	ug/L	70.0	23-134			
alpha-BHC	0.080 ug/L	0.050	ug/L	0.100	ug/L	80.0	23-134			
beta-BHC	0.090 ug/L	0.050	ug/L	0.100	ug/L	90.0	23-134			
delta-BHC	0.080 ug/L	0.050	ug/L	0.100	ug/L	80.0	23-134			
Dieldrin	0.080 ug/L	0.050	ug/L	0.100	ug/L	80.0	23-134			



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Certificate of Analysis

Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 11/20/2017 17:06
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Qual
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Batch BAK0419 - SW3510C

LCS (BAK0419-BS1)

Prepared & Analyzed: 11/15/2017

Endosulfan I	0.070 ug/L	0.050	ug/L	0.100	ug/L	70.0	23-134			
Endosulfan II	0.080 ug/L	0.050	ug/L	0.100	ug/L	80.0	23-134			
Endosulfan sulfate	0.080 ug/L	0.050	ug/L	0.100	ug/L	80.0	23-134			
Endrin	0.100 ug/L	0.050	ug/L	0.100	ug/L	100	23-134			
Endrin aldehyde	0.060 ug/L	0.050	ug/L	0.100	ug/L	60.0	23-134			
gamma-BHC (Lindane)	0.080 ug/L	0.050	ug/L	0.100	ug/L	80.0	23-134			
Heptachlor	0.070 ug/L	0.050	ug/L	0.100	ug/L	70.0	23-134			
Heptachlor epoxide	0.080 ug/L	0.050	ug/L	0.100	ug/L	80.0	23-134			
Methoxychlor	0.100 ug/L	0.050	ug/L	0.100	ug/L	100	23-134			
Mirex	0.070 ug/L	0.050	ug/L	0.100	ug/L	70.0	23-134			
<hr style="border-top: 1px dashed black;"/>										
Surr: TCMX	0.140		ug/L	0.200	ug/L	70.0	18-112			
Surr: DCB	0.180		ug/L	0.200	ug/L	90.0	27-131			

LCS (BAK0419-BS2)

Prepared & Analyzed: 11/15/2017

Toxaphene	1.75 ug/L	1.00	ug/L	2.50	ug/L	70.0	23-134			
<hr style="border-top: 1px dashed black;"/>										
Surr: TCMX	0.130		ug/L	0.200	ug/L	65.0	18-112			
Surr: DCB	0.120		ug/L	0.200	ug/L	60.0	27-131			

LCS (BAK0419-BS3)

Prepared & Analyzed: 11/15/2017

Chlordane	1.63 ug/L	0.200	ug/L	2.50	ug/L	65.2	23-134			
<hr style="border-top: 1px dashed black;"/>										
Surr: TCMX	0.120		ug/L	0.200	ug/L	60.0	18-112			
Surr: DCB	0.120		ug/L	0.200	ug/L	60.0	27-131			

Matrix Spike (BAK0419-MS1)

Source: 17K0424-09

Prepared & Analyzed: 11/15/2017

4,4'-DDD	0.083 ug/L	0.052	ug/L	0.104	<0.052 ug/L	80.0	23-134			
4,4'-DDE	0.094 ug/L	0.052	ug/L	0.104	<0.052 ug/L	90.0	23-134			
4,4'-DDT	0.094 ug/L	0.052	ug/L	0.104	<0.052 ug/L	90.0	23-134			
Aldrin	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134			
alpha-BHC	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134			
beta-BHC	0.083 ug/L	0.052	ug/L	0.104	<0.052 ug/L	80.0	23-134			
delta-BHC	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134			
Dieldrin	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134			



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Certificate of Analysis

Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 11/20/2017 17:06
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0419 - SW3510C

Matrix Spike (BAK0419-MS1)

Source: 17K0424-09

Prepared & Analyzed: 11/15/2017

Endosulfan I	0.062 ug/L	0.052	ug/L	0.104	<0.052 ug/L	60.0	23-134			
Endosulfan II	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134			
Endosulfan sulfate	0.083 ug/L	0.052	ug/L	0.104	<0.052 ug/L	80.0	23-134			
Endrin	0.104 ug/L	0.052	ug/L	0.104	<0.052 ug/L	100	23-134			
Endrin aldehyde	0.062 ug/L	0.052	ug/L	0.104	<0.052 ug/L	60.0	23-134			
gamma-BHC (Lindane)	0.083 ug/L	0.052	ug/L	0.104	<0.052 ug/L	80.0	23-134			
Heptachlor	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134			
Heptachlor epoxide	0.083 ug/L	0.052	ug/L	0.104	<0.052 ug/L	80.0	23-134			
Methoxychlor	0.104 ug/L	0.052	ug/L	0.104	<0.052 ug/L	100	23-134			
Mirex	0.062 ug/L	0.052	ug/L	0.104	<0.052 ug/L	60.0	23-134			
<hr style="border-top: 1px dashed black;"/>										
Surr: TCMX	0.135		ug/L	0.208	ug/L	65.0	18-112			
Surr: DCB	0.188		ug/L	0.208	ug/L	90.0	27-131			

Matrix Spike Dup (BAK0419-MSD1)

Source: 17K0424-09

Prepared & Analyzed: 11/15/2017

4,4'-DDD	0.083 ug/L	0.052	ug/L	0.104	<0.052 ug/L	80.0	23-134	0.00	20
4,4'-DDE	0.094 ug/L	0.052	ug/L	0.104	<0.052 ug/L	90.0	23-134	0.00	20
4,4'-DDT	0.094 ug/L	0.052	ug/L	0.104	<0.052 ug/L	90.0	23-134	0.00	20
Aldrin	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134	0.00	20
alpha-BHC	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134	0.00	20
beta-BHC	0.104 ug/L	0.052	ug/L	0.104	<0.052 ug/L	100	23-134	22.2	20
delta-BHC	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134	0.00	20
Dieldrin	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134	0.00	20
Endosulfan I	0.062 ug/L	0.052	ug/L	0.104	<0.052 ug/L	60.0	23-134	0.00	20
Endosulfan II	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134	0.00	20
Endosulfan sulfate	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134	13.3	20
Endrin	0.104 ug/L	0.052	ug/L	0.104	<0.052 ug/L	100	23-134	0.00	20
Endrin aldehyde	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134	15.4	20
gamma-BHC (Lindane)	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134	13.3	20
Heptachlor	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134	0.00	20
Heptachlor epoxide	0.073 ug/L	0.052	ug/L	0.104	<0.052 ug/L	70.0	23-134	13.3	20
Methoxychlor	0.104 ug/L	0.052	ug/L	0.104	<0.052 ug/L	100	23-134	0.00	20



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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0419 - SW3510C

Matrix Spike Dup (BAK0419-MSD1)

Source: 17K0424-09

Prepared & Analyzed: 11/15/2017

Mirex	0.062 ug/L	0.052	ug/L	0.104	<0.052 ug/L	60.0	23-134	0.00	20	
<i>Surr: TCMX</i>	0.135		ug/L	0.208	ug/L	65.0	18-112			
<i>Surr: DCB</i>	0.188		ug/L	0.208	ug/L	90.0	27-131			



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Final Report

Client Name: Timmons Group Date Issued: 11/20/2017 17:06
 1001 Boulders Parkway, Suite 300
 Richmond VA, 23225
 Submitted To: Julia Campus Project Number: [none]
 Client Site I.D.: East Main Street Parcels Purchase Order:

Organochlorine Herbicides by GC/ECD - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0408 - SW3510C

Blank (BAK0408-BLK1)

Prepared: 11/14/2017 Analyzed: 11/16/2017

2,4,5-T	<0.500 ug/L	0.500	ug/L							
2,4,5-TP (Silvex)	<0.500 ug/L	0.500	ug/L							
2,4-D	<0.500 ug/L	0.500	ug/L							
Dinoseb	<0.500 ug/L	0.500	ug/L							
Pentachlorophenol	<0.500 ug/L	0.500	ug/L							

Surr: DCAA (Surr) 0.722 ug/L 1.11 65.0 60-112

LCS (BAK0408-BS1)

Prepared: 11/14/2017 Analyzed: 11/16/2017

2,4,5-T	0.556 ug/L	0.500	ug/L	0.556 ug/L	100	53-144				
2,4,5-TP (Silvex)	0.556 ug/L	0.500	ug/L	0.556 ug/L	100	52-129				
2,4-D	0.556 ug/L	0.500	ug/L	0.556 ug/L	100	53-126				
Dinoseb	<0.500 ug/L	0.500	ug/L	0.556 ug/L	70.0	60-137				
Pentachlorophenol	0.556 ug/L	0.500	ug/L	0.556 ug/L	100	52-124				

Surr: DCAA (Surr) 0.889 ug/L 1.11 ug/L 80.0 60-112

Matrix Spike (BAK0408-MS1)

Source: 17K0324-01

Prepared: 11/14/2017 Analyzed: 11/16/2017

2,4,5-T	0.556 ug/L	0.500	ug/L	0.556 <0.500 ug/L	100	53-144				
2,4,5-TP (Silvex)	0.611 ug/L	0.500	ug/L	0.556 <0.500 ug/L	110	52-129				
2,4-D	0.611 ug/L	0.500	ug/L	0.556 <0.500 ug/L	110	53-126				
Dinoseb	0.500 ug/L	0.500	ug/L	0.556 <0.500 ug/L	90.0	60-137				
Pentachlorophenol	0.556 ug/L	0.500	ug/L	0.556 <0.500 ug/L	100	52-124				

Surr: DCAA (Surr) 0.778 ug/L 1.11 ug/L 70.0 60-112

Matrix Spike Dup (BAK0408-MSD1)

Source: 17K0324-01

Prepared: 11/14/2017 Analyzed: 11/16/2017

2,4,5-T	0.500 ug/L	0.500	ug/L	0.556 <0.500 ug/L	90.0	53-144	10.5	20		
2,4,5-TP (Silvex)	0.556 ug/L	0.500	ug/L	0.556 <0.500 ug/L	100	52-129	9.52	20		
2,4-D	0.556 ug/L	0.500	ug/L	0.556 <0.500 ug/L	100	53-126	9.52	20		
Dinoseb	<0.500 ug/L	0.500	ug/L	0.556 <0.500 ug/L	80.0	60-137	11.8	20		
Pentachlorophenol	0.500 ug/L	0.500	ug/L	0.556 <0.500 ug/L	90.0	52-124	10.5	20		

Surr: DCAA (Surr) 1.00 ug/L 1.11 ug/L 90.0 60-112



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Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0404 - No Prep Wet Chem

Blank (BAK0404-BLK1) Prepared & Analyzed: 11/14/2017										
Chromium, Hexavalent	<0.005 mg/L	0.005	mg/L							
LCS (BAK0404-BS1) Prepared & Analyzed: 11/14/2017										
Chromium, Hexavalent	0.100 mg/L	0.005	mg/L	0.100	mg/L	100	80-120			
Matrix Spike (BAK0404-MS1) Source: 17K0409-01 Prepared & Analyzed: 11/14/2017										
Chromium, Hexavalent	0.039 mg/L	0.005	mg/L	0.100	<0.005 mg/L	39.0	80-120			M
Matrix Spike Dup (BAK0404-MSD1) Source: 17K0409-01 Prepared & Analyzed: 11/14/2017										
Chromium, Hexavalent	0.040 mg/L	0.005	mg/L	0.100	<0.005 mg/L	40.0	80-120	20		M

Batch BAK0494 - No Prep Wet Chem

Blank (BAK0494-BLK1) Prepared & Analyzed: 11/16/2017										
Cyanide	<0.010 mg/L	0.010	mg/L							
LCS (BAK0494-BS1) Prepared & Analyzed: 11/16/2017										
Cyanide	0.245 mg/L	0.01	mg/L	0.250	mg/L	98.0	80-120			
LCS Dup (BAK0494-BSD1) Prepared & Analyzed: 11/16/2017										
Cyanide	0.258 mg/L	0.01	mg/L	0.250	mg/L	103	80-120	5.29	20	
Matrix Spike (BAK0494-MS1) Source: 17K0406-01 Prepared & Analyzed: 11/16/2017										
Cyanide	0.215 mg/L	0.010	mg/L	0.250	<0.010 mg/L	86.0	80-120			
Matrix Spike (BAK0494-MS2) Source: 17K0406-11 Prepared & Analyzed: 11/16/2017										
Cyanide	0.203 mg/L	0.010	mg/L	0.250	<0.010 mg/L	81.0	80-120			



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Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0494 - No Prep Wet Chem

Matrix Spike Dup (BAK0494-MSD1)		Source: 17K0406-01			Prepared & Analyzed: 11/16/2017					
Cyanide	0.264 mg/L	0.010	mg/L	0.250	<0.010 mg/L	105	80-120	20.3	20	P
Matrix Spike Dup (BAK0494-MSD2)		Source: 17K0406-11			Prepared & Analyzed: 11/16/2017					
Cyanide	0.207 mg/L	0.010	mg/L	0.250	<0.010 mg/L	82.8	80-120	2.20	20	



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Client Name: Timmons Group	Date Issued: 11/20/2017 17:06
1001 Boulders Parkway, Suite 300	
Richmond VA, 23225	
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Certified Analyses included in this Report

Analyte	Certifications
<i>SM22 4500CNE-2011 in Non-Potable Water</i>	
Cyanide	VELAP,NC
<i>SW6010C in Non-Potable Water</i>	
Aluminum	VELAP,WVDEP
Barium	VELAP,WVDEP
Beryllium	VELAP,WVDEP
Cadmium	VELAP,WVDEP
Calcium	VELAP,WVDEP
Chromium	VELAP,WVDEP
Cobalt	VELAP,WVDEP
Copper	VELAP,WVDEP
Iron	VELAP,WVDEP
Lead	VELAP,WVDEP
Magnesium	VELAP,WVDEP
Manganese	VELAP,WVDEP
Nickel	VELAP,WVDEP
Potassium	VELAP,WVDEP
Silver	VELAP,WVDEP
Sodium	VELAP,WVDEP
Vanadium	VELAP,WVDEP
Zinc	VELAP,WVDEP
<i>SW6020A in Non-Potable Water</i>	
Antimony	VELAP,NC,WVDEP
Arsenic	VELAP,WVDEP
Selenium	VELAP,WVDEP
Thallium	VELAP,WVDEP
<i>SW7196A in Non-Potable Water</i>	
Chromium, Hexavalent	VELAP
<i>SW7470A in Non-Potable Water</i>	
Mercury	VELAP,NC,WVDEP
<i>SW8015C in Non-Potable Water</i>	
TPH-Semi-Volatiles (DRO)	VELAP,NC,WVDEP
TPH-Semi-Volatiles (ORO)	VELAP
<i>SW8081B in Non-Potable Water</i>	
4,4'-DDD	NC,VELAP,WVDEP
4,4'-DDE	NC,VELAP,WVDEP



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1001 Boulders Parkway, Suite 300	
Richmond VA, 23225	
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Certified Analyses included in this Report

Analyte	Certifications
4,4'-DDT	NC,VELAP,WVDEP
Aldrin	NC,VELAP,WVDEP
alpha-BHC	NC,VELAP,WVDEP
beta-BHC	NC,VELAP,WVDEP
Chlordane	NC,VELAP,WVDEP
delta-BHC	NC,VELAP,WVDEP
Dieldrin	NC,VELAP,WVDEP
Endosulfan I	NC,VELAP,WVDEP
Endosulfan II	NC,VELAP,WVDEP
Endosulfan sulfate	NC,VELAP,WVDEP
Endrin	NC,VELAP,WVDEP
Endrin aldehyde	NC,VELAP,WVDEP
gamma-BHC (Lindane)	NC,VELAP,WVDEP
Heptachlor	NC,VELAP,WVDEP
Heptachlor epoxide	NC,VELAP,WVDEP
Methoxychlor	NC,VELAP,WVDEP
Toxaphene	NC,VELAP,WVDEP
 SW8151A in Non-Potable Water	
2,4,5-T	VELAP,NC
2,4,5-TP (Silvex)	VELAP,NC
2,4-D	VELAP,NC
Dinoseb	VELAP,NC
Pentachlorophenol	VELAP,NC
 SW8260B in Non-Potable Water	
1,1,1,2-Tetrachloroethane	NC,VELAP,WVDEP
1,1,1-Trichloroethane	NC,VELAP,WVDEP
1,1,2,2-Tetrachloroethane	NC,VELAP,WVDEP
1,1,2-Trichloroethane	NC,VELAP,WVDEP
1,1-Dichloroethane	NC,VELAP,WVDEP
1,1-Dichloroethylene	NC,VELAP,WVDEP
1,1-Dichloropropene	NC,VELAP,WVDEP
1,2,3-Trichlorobenzene	NC,VELAP,WVDEP
1,2,3-Trichloropropane	NC,VELAP,WVDEP
1,2,4-Trichlorobenzene	NC,VELAP,WVDEP
1,2,4-Trimethylbenzene	NC,VELAP,WVDEP
1,2-Dibromo-3-chloropropane (DBCP)	NC,VELAP,WVDEP
1,2-Dibromoethane (EDB)	NC,VELAP,WVDEP



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1001 Boulders Parkway, Suite 300	
Richmond VA, 23225	
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Certified Analyses included in this Report

Analyte	Certifications
1,2-Dichlorobenzene	NC,VELAP,WVDEP
1,2-Dichloroethane	NC,VELAP,WVDEP
1,2-Dichloropropane	NC,VELAP,WVDEP
1,3,5-Trimethylbenzene	NC,WVDEP
1,3-Dichlorobenzene	NC,VELAP,WVDEP
1,3-Dichloropropane	NC,VELAP,WVDEP
1,4-Dichlorobenzene	NC,VELAP,WVDEP
2,2-Dichloropropane	NC,VELAP,WVDEP
2-Butanone (MEK)	NC,VELAP,WVDEP
2-Chlorotoluene	NC,VELAP,WVDEP
2-Hexanone (MBK)	NC,VELAP,WVDEP
4-Chlorotoluene	NC,VELAP,WVDEP
4-Isopropyltoluene	NC,VELAP,WVDEP
4-Methyl-2-pentanone (MIBK)	NC,VELAP,WVDEP
Acetone	NC,VELAP,WVDEP
Benzene	NC,VELAP,WVDEP
Bromobenzene	NC,VELAP,WVDEP
Bromochloromethane	NC,VELAP,WVDEP
Bromodichloromethane	NC,VELAP,WVDEP
Bromoform	NC,VELAP,WVDEP
Bromomethane	NC,VELAP,WVDEP
Carbon disulfide	NC,VELAP,WVDEP
Carbon tetrachloride	NC,VELAP,WVDEP
Chlorobenzene	NC,VELAP,WVDEP
Chloroethane	NC,VELAP,WVDEP
Chloroform	NC,VELAP,WVDEP
Chloromethane	NC,VELAP,WVDEP
cis-1,2-Dichloroethylene	NC,VELAP,WVDEP
cis-1,3-Dichloropropene	NC,VELAP,WVDEP
Dibromochloromethane	NC,VELAP,WVDEP
Dibromomethane	NC,VELAP,WVDEP
Dichlorodifluoromethane	NC,VELAP,WVDEP
Di-isopropyl ether (DIPE)	NC,VELAP,WVDEP
Ethylbenzene	NC,VELAP,WVDEP
Hexachlorobutadiene	NC,VELAP,WVDEP
Iodomethane	NC,VELAP,WVDEP
Isopropylbenzene	NC,VELAP,WVDEP
m+p-Xylenes	NC,VELAP,WVDEP



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1001 Boulders Parkway, Suite 300	
Richmond VA, 23225	
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Certified Analyses included in this Report

Analyte	Certifications
Methylene chloride	NC,VELAP,WVDEP
Methyl-t-butyl ether (MTBE)	NC,VELAP,WVDEP
Naphthalene	NC,VELAP,WVDEP
n-Butylbenzene	NC,VELAP,WVDEP
n-Propylbenzene	NC,VELAP,WVDEP
o-Xylene	NC,VELAP,WVDEP
sec-Butylbenzene	NC,VELAP,WVDEP
Styrene	NC,VELAP,WVDEP
tert-Butylbenzene	NC,VELAP,WVDEP
Tetrachloroethylene (PCE)	NC,VELAP,WVDEP
Toluene	NC,VELAP,WVDEP
trans-1,2-Dichloroethylene	NC,VELAP,WVDEP
trans-1,3-Dichloropropene	NC,VELAP,WVDEP
Trichloroethylene	NC,VELAP,WVDEP
Trichlorofluoromethane	NC,VELAP,WVDEP
Vinyl acetate	NC,VELAP,WVDEP
Vinyl chloride	NC,VELAP,WVDEP
Xylenes, Total	NC,VELAP,WVDEP
SW8270D in Non-Potable Water	
1,2,4,5-Tetrachlorobenzene	VELAP,WVDEP,NC
1,2,4-Trichlorobenzene	VELAP,WVDEP,NC
1,2-Dichlorobenzene	VELAP,WVDEP,NC
1,2-Diphenylhydrazine	VELAP,WVDEP,NC
1,3-Dichlorobenzene	VELAP,WVDEP,NC
1,3-Dinitrobenzene	VELAP,WVDEP,NC
1,4-Dichlorobenzene	VELAP,WVDEP,NC
1-Naphthylamine	VELAP,WVDEP,NC
2,3,4,6-Tetrachlorophenol	VELAP,WVDEP,NC
2,4,5-Trichlorophenol	VELAP,WVDEP,NC
2,4,6-Trichlorophenol	VELAP,WVDEP,NC
2,4-Dichlorophenol	VELAP,WVDEP,NC
2,4-Dimethylphenol	VELAP,WVDEP,NC
2,4-Dinitrophenol	VELAP,WVDEP,NC
2,4-Dinitrotoluene	VELAP,WVDEP,NC
2,6-Dichlorophenol	VELAP,WVDEP,NC
2,6-Dinitrotoluene	VELAP,WVDEP,NC
2-Chloronaphthalene	VELAP,WVDEP,NC



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Certificate of Analysis

Final Report

Client Name: Timmons Group	Date Issued: 11/20/2017 17:06
1001 Boulders Parkway, Suite 300	
Richmond VA, 23225	
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Certified Analyses included in this Report

Analyte	Certifications
2-Chlorophenol	VELAP,WVDEP,NC
2-Methylnaphthalene	VELAP,WVDEP,NC
2-Naphthylamine	VELAP,WVDEP,NC
2-Nitroaniline	VELAP,WVDEP,NC
2-Nitrophenol	VELAP,WVDEP,NC
3,3'-Dichlorobenzidine	VELAP,WVDEP,NC
3-Methylcholanthrene	VELAP,WVDEP,NC
3-Nitroaniline	VELAP,WVDEP,NC
4,6-Dinitro-2-methylphenol	VELAP,WVDEP,NC
4-Aminobiphenyl	VELAP,WVDEP,NC
4-Bromophenyl phenyl ether	VELAP,WVDEP,NC
4-Chloroaniline	VELAP,WVDEP,NC
4-Chlorophenyl phenyl ether	VELAP,WVDEP,NC
4-Nitroaniline	VELAP,WVDEP,NC
4-Nitrophenol	VELAP,WVDEP,NC
7,12-Dimethylbenz (a) anthracene	VELAP,WVDEP,NC
Acenaphthene	VELAP,WVDEP,NC
Acenaphthylene	VELAP,WVDEP,NC
Acetophenone	VELAP,WVDEP,NC
Aniline	VELAP,WVDEP,NC
Anthracene	VELAP,WVDEP,NC
Benzidine	VELAP,WVDEP,NC
Benzo (a) anthracene	VELAP,WVDEP,NC
Benzo (a) pyrene	VELAP,WVDEP,NC
Benzo (b) fluoranthene	VELAP,WVDEP,NC
Benzo (g,h,i) perylene	VELAP,WVDEP,NC
Benzo (k) fluoranthene	VELAP,WVDEP,NC
Benzoic acid	VELAP,WVDEP,NC
Benzyl alcohol	VELAP,WVDEP,NC
bis (2-Chloroethoxy) methane	VELAP,WVDEP,NC
bis (2-Chloroethyl) ether	VELAP,WVDEP,NC
2,2'-Oxybis (1-chloropropane)	VELAP,WVDEP,NC
bis (2-Ethylhexyl) phthalate	VELAP,WVDEP,NC
Butyl benzyl phthalate	VELAP,WVDEP,NC
Chrysene	VELAP,WVDEP,NC
Dibenz (a,h) anthracene	VELAP,WVDEP,NC
Dibenz (a,j) acridine	VELAP,WVDEP,NC
Dibenzofuran	VELAP,WVDEP,NC



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Certificate of Analysis

Final Report

Client Name: Timmons Group	Date Issued: 11/20/2017 17:06
1001 Boulders Parkway, Suite 300	
Richmond VA, 23225	
Submitted To: Julia Campus	Project Number: [none]
Client Site I.D.: East Main Street Parcels	Purchase Order:

Certified Analyses included in this Report

Analyte	Certifications
Diethyl phthalate	VELAP,WVDEP,NC
Dimethyl phthalate	VELAP,WVDEP,NC
Di-n-butyl phthalate	VELAP,WVDEP,NC
Di-n-octyl phthalate	VELAP,WVDEP,NC
Diphenylamine	VELAP,WVDEP,NC
Ethyl methanesulfonate	VELAP,WVDEP,NC
Fluoranthene	VELAP,WVDEP,NC
Fluorene	VELAP,WVDEP,NC
Hexachlorobenzene	VELAP,WVDEP,NC
Hexachlorobutadiene	VELAP,WVDEP,NC
Hexachlorocyclopentadiene	VELAP,WVDEP,NC
Hexachloroethane	VELAP,WVDEP,NC
Indeno (1,2,3-cd) pyrene	VELAP,WVDEP,NC
Isophorone	VELAP,WVDEP,NC
m+p-Cresols	VELAP,WVDEP,NC
Methyl methanesulfonate	VELAP,WVDEP,NC
Naphthalene	VELAP,WVDEP,NC
Nitrobenzene	VELAP,WVDEP,NC
n-Nitrosodimethylamine	VELAP,WVDEP,NC
n-Nitrosodi-n-butylamine	VELAP,WVDEP,NC
n-Nitrosodi-n-propylamine	VELAP,WVDEP,NC
n-Nitrosodiphenylamine	VELAP,WVDEP,NC
n-Nitrosopiperidine	VELAP,WVDEP,NC
o+m+p-Cresols	WVDEP,NC
o-Cresol	VELAP,WVDEP,NC
p-(Dimethylamino) azobenzene	VELAP,WVDEP,NC
p-Chloro-m-cresol	VELAP,WVDEP,NC
Pentachloronitrobenzene (quintozene)	VELAP,WVDEP,NC
Pentachlorophenol	VELAP,WVDEP,NC
Phenacetin	VELAP,WVDEP,NC
Phenanthrene	VELAP,WVDEP,NC
Phenol	VELAP,WVDEP,NC
Pronamide	VELAP,WVDEP,NC
Pyrene	VELAP,WVDEP,NC
Pyridine	VELAP,WVDEP,NC



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Certificate of Analysis

Final Report

Client Name: Timmons Group
1001 Boulders Parkway, Suite 300
Richmond VA, 23225

Date Issued: 11/20/2017 17:06

Submitted To: Julia Campus
Client Site I.D.: East Main Street Parcels

Project Number: [none]

Purchase Order:

Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2017
NC	North Carolina DENR	495	12/31/2017
VELAP	NELAC-Virginia Certificate #9439	460021	06/14/2018
WVDEP	West Virginia DEP	350	11/30/2017



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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Summary of Data Qualifiers

- C Continuing calibration verification response for this analyte is outside specifications.
 - Cl Residual Chlorine or other oxidizing agent was detected in the container used to analyze this sample.
 - E Estimated concentration, outside calibration range
 - M Matrix spike recovery is outside established acceptance limits
 - M2 Sample was diluted due to matrix interference.
 - M3 Method of Standard Additions (MSA) performed due to matrix interference.
 - P Duplicate analysis does not meet the acceptance criteria for precision
 - RPD Relative Percent Difference
 - Qual Qualifiers
 - RE Denotes sample was re-analyzed
 - D.F. Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.
 - TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library . A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.
- PCBs, Total Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

CHAIN OF CUSTODY

PAGE 1 OF 1

COMPANY NAME: <u>Timmons Group</u>	INVOICE TO: <u>Same</u>	PROJECT NAME/Quote #:
CONTACT: <u>Julia Campus</u>	INVOICE CONTACT:	SITE NAME:
ADDRESS: <u>1001 Boulder Pkwy Ste 300</u>	INVOICE ADDRESS: <u>/</u>	PROJECT NUMBER:
PHONE #: <u>804 200 0577</u>	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL: <u>julia.campus@timmons.com</u>	Pretreatment Program:
Is sample for compliance reporting? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Is sample from a chlorinated supply? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PWS I.D. #:
SAMPLER NAME (PRINT): <u>Julia Campus</u>	SAMPLER SIGNATURE: <u>Julia Campus</u>	Turn Around Time: Circle: <u>10</u> <u>5 Days</u> or <u> </u> Day(s)

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE)							COMMENTS	
											TAL Metals	VOCS	SVOCs	Pesticides	Herbicides	STPH-ORO	TPH-DRO		Cyanide
1) <u>MW-28.1</u>	<input checked="" type="checkbox"/>					<u>11/13/17</u>	<u>13:00</u>	<u>13:30</u>	<u>GW</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>MS/MSD analysis</u>
2) <u>MW-29</u>	<input checked="" type="checkbox"/>					<u>11/13/17</u>	<u>14:30</u>	<u>14:45</u>	<u>GW</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
3) <u>Trip Blank</u>	<input checked="" type="checkbox"/>					<u>11/13/17</u>	<u>13:00</u>	<u>13:00</u>	<u>GW</u>			<input checked="" type="checkbox"/>							
4)																			
5)																			
6)																			
7)																			
8)																			
9)																			
10)																			<u>NO Seal</u> <u>NO ICE</u>

Preservative Codes: N=Nitric Acid
 C=Hydrochloric Acid S=Sulfuric Acid
 H=Sodium Hydroxide A=Ascorbic Acid
 Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol

PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)

RELINQUISHED: <u>Julia Campus</u>	DATE / TIME: <u>11/13/17 16:11</u>	RECEIVED: <u>[Signature]</u>	DATE / TIME: <u>11/20/17 16:11</u>	QC Data Package	LAB USE ONLY	COOLER TEMP: <u>3.7</u> °C
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level III <input type="checkbox"/>	TG Default Project	17K0409
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level IV <input type="checkbox"/>		
				Recd: 11/13/2017 Due: 11/20/2017		

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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	11/20/2017 17:06
Submitted To:	Julia Campus	Project Number:	[none]
Client Site I.D.:	East Main Street Parcels	Purchase Order:	

Sample Conditions Checklist

Samples Received at:	3.70°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	Yes
Are all volatile organic and TOX containers free of headspace?	Yes
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	Yes
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

Per Julia Campus, project name is E. Main St. Parcels. JPV 11/14/17 08:02
 Regarding 17K0409-02: Not enough sample to perform Hg portion of TAL Metals
 Test. Per Julia Campus, Hg analysis to be cancelled. JPV 11/16/17 11:29



Air Water & Soil Laboratories, Inc.
 1941 Reymet Road
 Richmond, VA 23237
 (804)-358-8295 - Telephone
 (804)-358-8297 - Fax

Analysis Detects Report

Client Name: Timmons Group
 Client Site ID: E. Main St Parcels
 Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Laboratory Sample ID: 17K0646-02

Client Sample ID: CSO-1

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Benzyl alcohol	02	SW8270D	4.43	J	1.10	22.0	1	ug/L
bis (2-Ethylhexyl) phthalate	02	SW8270D	1.42	J	1.10	11.0	1	ug/L
Diethyl phthalate	02	SW8270D	1.76	J	1.10	11.0	1	ug/L
Di-n-octyl phthalate	02	SW8270D	1.96	J	1.10	11.0	1	ug/L
Naphthalene	02	SW8270D	5.91	J	1.10	5.49	1	ug/L

Laboratory Sample ID: 17K0646-03

Client Sample ID: CSO-2

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Benzoic acid	03	SW8270D	27.2	C	4.21	10.5	4	ug/L
Benzyl alcohol	03	SW8270D	11.5		4.21	10.5	4	ug/L
bis (2-Ethylhexyl) phthalate	03	SW8270D	5.26	J	4.21	10.5	4	ug/L
Di-n-octyl phthalate	03	SW8270D	8.21	J	4.21	10.5	4	ug/L

Note that this report is not the "Certificate of Analysis". This report only lists the target analytes that displayed concentrations that exceeded the detection limit specified for that analyte. For a complete listing of all analytes requested and the results of the analysis see the "Certificate of Analysis".



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Certificate of Analysis

Final Report

Laboratory Order ID 17K0646

Client Name: Timmons Group
1001 Boulders Parkway, Suite 300
Richmond, VA 23225

Date Received: November 17, 2017 13:40
Date Issued: November 29, 2017 10:58
Project Number: [none]
Purchase Order:

Submitted To: John Russell

Client Site I.D.: E. Main St Parcels

Enclosed are the results of analyses for samples received by the laboratory on 11/17/2017 13:40. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars
Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Air Water & Soil Laboratories, Inc.



Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-29	17K0646-01	Ground Water	11/17/2017 10:00	11/17/2017 13:40
CSO-1	17K0646-02	Ground Water	11/17/2017 10:30	11/17/2017 13:40
CSO-2	17K0646-03	Ground Water	11/17/2017 12:00	11/17/2017 13:40
Trip Blank	17K0646-04	Ground Water	11/08/2017 13:00	11/17/2017 13:40

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: MW-29

Laboratory Sample ID: 17K0646-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Mercury	01	7439-97-6	SW7470A	11/20/2017 07:45	11/21/2017 07:48	BLOD		0.00020	0.00020	1	mg/L	RCV
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	01	630-20-6	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.10	0.40	1	ug/L	JDW
1,1,1-Trichloroethane	01	71-55-6	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.70	1.00	1	ug/L	JDW
1,1,2,2-Tetrachloroethane	01	79-34-5	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.40	0.40	1	ug/L	JDW
1,1,2-Trichloroethane	01	79-00-5	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.50	1.00	1	ug/L	JDW
1,1-Dichloroethane	01	75-34-3	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.40	1.00	1	ug/L	JDW
1,1-Dichloroethylene	01	75-35-4	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.30	1.00	1	ug/L	JDW
1,1-Dichloropropene	01	563-58-6	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.20	1.00	1	ug/L	JDW
1,2,3-Trichlorobenzene	01	87-61-6	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.30	1.00	1	ug/L	JDW
1,2,3-Trichloropropane	01	96-18-4	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.40	1.00	1	ug/L	JDW
1,2,4-Trichlorobenzene	01	120-82-1	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.30	1.00	1	ug/L	JDW
1,2,4-Trimethylbenzene	01	95-63-6	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.20	1.00	1	ug/L	JDW
1,2-Dibromo-3-chloropropane (DBCP)	01	96-12-8	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.80	4.00	1	ug/L	JDW
1,2-Dibromoethane (EDB)	01	106-93-4	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.40	1.00	1	ug/L	JDW
1,2-Dichlorobenzene	01	95-50-1	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.20	1.00	1	ug/L	JDW
1,2-Dichloroethane	01	107-06-2	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.90	1.00	1	ug/L	JDW
1,2-Dichloropropane	01	78-87-5	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.60	1.00	1	ug/L	JDW
1,3,5-Trimethylbenzene	01	108-67-8	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.20	1.00	1	ug/L	JDW
1,3-Dichlorobenzene	01	541-73-1	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.20	1.00	1	ug/L	JDW
1,3-Dichloropropane	01	142-28-9	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.20	1.00	1	ug/L	JDW
1,4-Dichlorobenzene	01	106-46-7	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.40	1.00	1	ug/L	JDW
2,2-Dichloropropane	01	594-20-7	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.30	2.00	1	ug/L	JDW
2-Butanone (MEK)	01	78-93-3	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		5.00	10.0	1	ug/L	JDW

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: E. Main St Parcels
 Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: MW-29

Laboratory Sample ID: 17K0646-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
2-Chlorotoluene	01	95-49-8	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.20	1.00	1	ug/L	JDW
2-Hexanone (MBK)	01	591-78-6	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		5.00	5.00	1	ug/L	JDW
4-Chlorotoluene	01	106-43-4	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.20	1.00	1	ug/L	JDW
4-Isopropyltoluene	01	99-87-6	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.20	1.00	1	ug/L	JDW
4-Methyl-2-pentanone (MIBK)	01	108-10-1	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		5.00	5.00	1	ug/L	JDW
Acetone	01	67-64-1	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		7.00	10.0	1	ug/L	JDW
Benzene	01	71-43-2	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.30	1.00	1	ug/L	JDW
Bromobenzene	01	108-86-1	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.20	1.00	1	ug/L	JDW
Bromochloromethane	01	74-97-5	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.40	1.00	1	ug/L	JDW
Bromodichloromethane	01	75-27-4	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.30	0.50	1	ug/L	JDW
Bromoform	01	75-25-2	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.50	1.00	1	ug/L	JDW
Bromomethane	01	74-83-9	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.30	1.00	1	ug/L	JDW
Carbon disulfide	01	75-15-0	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		1.00	10.0	1	ug/L	JDW
Carbon tetrachloride	01	56-23-5	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.40	1.00	1	ug/L	JDW
Chlorobenzene	01	108-90-7	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.40	1.00	1	ug/L	JDW
Chloroethane	01	75-00-3	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.40	1.00	1	ug/L	JDW
Chloroform	01	67-66-3	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.40	0.50	1	ug/L	JDW
Chloromethane	01	74-87-3	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.50	1.00	1	ug/L	JDW
cis-1,2-Dichloroethylene	01	156-59-2	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.40	1.00	1	ug/L	JDW
cis-1,3-Dichloropropene	01	10061-01-5	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.20	1.00	1	ug/L	JDW
Dibromochloromethane	01	124-48-1	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.70	1.00	1	ug/L	JDW
Dibromomethane	01	74-95-3	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.30	1.00	1	ug/L	JDW
Dichlorodifluoromethane	01	75-71-8	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		1.00	1.00	1	ug/L	JDW
Di-isopropyl ether (DIPE)	01	108-20-3	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		5.00	5.00	1	ug/L	JDW

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: E. Main St Parcels
 Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: MW-29

Laboratory Sample ID: 17K0646-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Ethylbenzene	01	100-41-4	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.20	1.00	1	ug/L	JDW
Hexachlorobutadiene	01	87-68-3	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		1.00	1.00	1	ug/L	JDW
Iodomethane	01	74-88-4	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		1.70	10.0	1	ug/L	JDW
Isopropylbenzene	01	98-82-8	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.20	1.00	1	ug/L	JDW
m+p-Xylenes	01	179601-23-1	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.50	2.00	1	ug/L	JDW
Methylene chloride	01	75-09-2	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		2.00	4.00	1	ug/L	JDW
Methyl-t-butyl ether (MTBE)	01	1634-04-4	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.40	1.00	1	ug/L	JDW
Naphthalene	01	91-20-3	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.50	1.00	1	ug/L	JDW
n-Butylbenzene	01	104-51-8	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.30	1.00	1	ug/L	JDW
n-Propylbenzene	01	103-65-1	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.10	1.00	1	ug/L	JDW
o-Xylene	01	95-47-6	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.50	1.00	1	ug/L	JDW
sec-Butylbenzene	01	135-98-8	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.10	1.00	1	ug/L	JDW
Styrene	01	100-42-5	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.20	1.00	1	ug/L	JDW
tert-Butylbenzene	01	98-06-6	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.10	1.00	1	ug/L	JDW
Tetrachloroethylene (PCE)	01	127-18-4	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.40	1.00	1	ug/L	JDW
Toluene	01	108-88-3	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.40	1.00	1	ug/L	JDW
trans-1,2-Dichloroethylene	01	156-60-5	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.40	1.00	1	ug/L	JDW
trans-1,3-Dichloropropene	01	10061-02-6	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.50	1.00	1	ug/L	JDW
Trichloroethylene	01	79-01-6	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.30	1.00	1	ug/L	JDW
Trichlorofluoromethane	01	75-69-4	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.20	1.00	1	ug/L	JDW
Vinyl acetate	01	108-05-4	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		2.20	10.0	1	ug/L	JDW
Vinyl chloride	01	75-01-4	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		0.30	0.50	1	ug/L	JDW
Xylenes, Total	01	1330-20-7	SW8260B	11/20/2017 20:22	11/20/2017 20:22	BLOD		1.00	3.00	1	ug/L	JDW

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: MW-29

Laboratory Sample ID: 17K0646-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Surr: 1,2-Dichloroethane-d4 (Surr)	01	79.6 %	70-120	11/20/2017 20:22	11/20/2017 20:22							
Surr: 4-Bromofluorobenzene (Surr)	01	103 %	75-120	11/20/2017 20:22	11/20/2017 20:22							
Surr: Dibromofluoromethane (Surr)	01	74.8 %	80-119	11/20/2017 20:22	11/20/2017 20:22							S
Surr: Toluene-d8 (Surr)	01	101 %	85-120	11/20/2017 20:22	11/20/2017 20:22							

Certificate of Analysis

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Wet Chemistry Analysis												
Chromium, Hexavalent	01	18540-29-9	SW7196A	11/17/2017 15:30	11/17/2017 18:28	BLOD		0.005	0.005	1	mg/L	MEC

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: CSO-1

Laboratory Sample ID: 17K0646-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
1,2,4,5-Tetrachlorobenzene	02	95-94-3	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	11.0	1	ug/L	SKS
1,2,4-Trichlorobenzene	02	120-82-1	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	11.0	1	ug/L	SKS
1,2-Dichlorobenzene	02	95-50-1	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
1,2-Diphenylhydrazine	02	122-66-7	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		11.0	11.0	1	ug/L	SKS
1,3-Dichlorobenzene	02	541-73-1	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
1,3-Dinitrobenzene	02	99-65-0	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.75	2.75	1	ug/L	SKS
1,4-Dichlorobenzene	02	106-46-7	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
1-Naphthylamine	02	134-32-7	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
2,3,4,6-Tetrachlorophenol	02	58-90-2	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
2,4,5-Trichlorophenol	02	95-95-4	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
2,4,6-Trichlorophenol	02	88-06-2	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
2,4-Dichlorophenol	02	120-83-2	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
2,4-Dimethylphenol	02	105-67-9	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		0.55	0.55	1	ug/L	SKS
2,4-Dinitrophenol	02	51-28-5	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		0.55	54.9	1	ug/L	SKS
2,4-Dinitrotoluene	02	121-14-2	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
2,6-Dichlorophenol	02	87-65-0	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
2,6-Dinitrotoluene	02	606-20-2	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
2-Chloronaphthalene	02	91-58-7	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
2-Chlorophenol	02	95-57-8	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
2-Methylnaphthalene	02	91-57-6	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	11.0	1	ug/L	SKS
2-Naphthylamine	02	91-59-8	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	11.0	1	ug/L	SKS
2-Nitroaniline	02	88-74-4	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	22.0	1	ug/L	SKS
2-Nitrophenol	02	88-75-5	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
3,3'-Dichlorobenzidine	02	91-94-1	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		4.40	11.0	1	ug/L	SKS

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: E. Main St Parcels
 Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: CSO-1

Laboratory Sample ID: 17K0646-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
3-Methylcholanthrene	02	56-49-5	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
3-Nitroaniline	02	99-09-2	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	22.0	1	ug/L	SKS
4,6-Dinitro-2-methylphenol	02	534-52-1	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	54.9	1	ug/L	SKS
4-Aminobiphenyl	02	92-67-1	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	11.0	1	ug/L	SKS
4-Bromophenyl phenyl ether	02	101-55-3	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
4-Chloroaniline	02	106-47-8	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	11.0	1	ug/L	SKS
4-Chlorophenyl phenyl ether	02	7005-72-3	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
4-Nitroaniline	02	100-01-6	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	22.0	1	ug/L	SKS
4-Nitrophenol	02	100-02-7	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD	C	1.10	54.9	1	ug/L	SKS
7,12-Dimethylbenz (a) anthracene	02	57-97-6	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	11.0	1	ug/L	SKS
Acenaphthene	02	83-32-9	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Acenaphthylene	02	208-96-8	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Acetophenone	02	98-86-2	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	22.0	1	ug/L	SKS
Aniline	02	62-53-3	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	54.9	1	ug/L	SKS
Anthracene	02	120-12-7	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Benzidine	02	92-87-5	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		54.9	54.9	1	ug/L	SKS
Benzo (a) anthracene	02	56-55-3	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Benzo (a) pyrene	02	50-32-8	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Benzo (b) fluoranthene	02	205-99-2	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Benzo (g,h,i) perylene	02	191-24-2	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Benzo (k) fluoranthene	02	207-08-9	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Benzoic acid	02	65-85-0	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD	C	1.10	54.9	1	ug/L	SKS
Benzyl alcohol	02	100-51-6	SW8270D	11/22/2017 10:00	11/28/2017 12:43	4.43	J	1.10	22.0	1	ug/L	SKS
bis (2-Chloroethoxy) methane	02	111-91-1	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: E. Main St Parcels
 Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: CSO-1

Laboratory Sample ID: 17K0646-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
bis (2-Chloroethyl) ether	02	111-44-4	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
2,2'-Oxybis (1-chloropropane)	02	108-60-1	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
bis (2-Ethylhexyl) phthalate	02	117-81-7	SW8270D	11/22/2017 10:00	11/28/2017 12:43	1.42	J	1.10	11.0	1	ug/L	SKS
Butyl benzyl phthalate	02	85-68-7	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Chrysene	02	218-01-9	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Dibenz (a,h) anthracene	02	53-70-3	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Dibenz (a,j) acridine	02	224-42-0	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		3.30	11.0	1	ug/L	SKS
Dibenzofuran	02	132-64-9	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	5.49	1	ug/L	SKS
Diethyl phthalate	02	84-66-2	SW8270D	11/22/2017 10:00	11/28/2017 12:43	1.76	J	1.10	11.0	1	ug/L	SKS
Dimethyl phthalate	02	131-11-3	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Di-n-butyl phthalate	02	84-74-2	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	11.0	1	ug/L	SKS
Di-n-octyl phthalate	02	117-84-0	SW8270D	11/22/2017 10:00	11/28/2017 12:43	1.96	J	1.10	11.0	1	ug/L	SKS
Diphenylamine	02	122-39-4	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	11.0	1	ug/L	SKS
Ethyl methanesulfonate	02	62-50-0	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	22.0	1	ug/L	SKS
Fluoranthene	02	206-44-0	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Fluorene	02	86-73-7	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Hexachlorobenzene	02	118-74-1	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	1.10	1	ug/L	SKS
Hexachlorobutadiene	02	87-68-3	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Hexachlorocyclopentadiene	02	77-47-4	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD	C	1.10	11.0	1	ug/L	SKS
Hexachloroethane	02	67-72-1	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Indeno (1,2,3-cd) pyrene	02	193-39-5	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Isophorone	02	78-59-1	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
m+p-Cresols	02	84989-04-8	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Methyl methanesulfonate	02	66-27-3	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: E. Main St Parcels
 Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: CSO-1

Laboratory Sample ID: 17K0646-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Naphthalene	02	91-20-3	SW8270D	11/22/2017 10:00	11/28/2017 12:43	5.91		1.10	5.49	1	ug/L	SKS
Nitrobenzene	02	98-95-3	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
n-Nitrosodimethylamine	02	62-75-9	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	11.0	1	ug/L	SKS
n-Nitrosodi-n-butylamine	02	924-16-3	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	11.0	1	ug/L	SKS
n-Nitrosodi-n-propylamine	02	621-64-7	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	11.0	1	ug/L	SKS
n-Nitrosodiphenylamine	02	86-30-6	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
n-Nitrosopiperidine	02	100-75-4	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	11.0	1	ug/L	SKS
o+m+p-Cresols	02	1319-77-3	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		3.30	11.0	1	ug/L	SKS
o-Cresol	02	95-48-7	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
p-(Dimethylamino) azobenzene	02	60-11-7	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	2.75	1	ug/L	SKS
p-Chloro-m-cresol	02	59-50-7	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Pentachloronitrobenzene (quintozene)	02	82-68-8	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Pentachlorophenol	02	87-86-5	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	22.0	1	ug/L	SKS
Phenacetin	02	62-44-2	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Phenanthrene	02	85-01-8	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Phenol	02	108-95-2	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Pronamide	02	23950-58-5	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		2.20	11.0	1	ug/L	SKS
Pyrene	02	129-00-0	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Pyridine	02	110-86-1	SW8270D	11/22/2017 10:00	11/28/2017 12:43	BLOD		1.10	11.0	1	ug/L	SKS
Surr: 2,4,6-Tribromophenol (Surr)	02	55.1 %	20-86	11/22/2017 10:00	11/28/2017 12:43							
Surr: 2-Fluorobiphenyl (Surr)	02	46.4 %	23-87	11/22/2017 10:00	11/28/2017 12:43							
Surr: 2-Fluorophenol (Surr)	02	30.2 %	10-52	11/22/2017 10:00	11/28/2017 12:43							
Surr: Nitrobenzene-d5 (Surr)	02	44.2 %	10-98.5	11/22/2017 10:00	11/28/2017 12:43							
Surr: Phenol-d5 (Surr)	02	20.2 %	5-33	11/22/2017 10:00	11/28/2017 12:43							
Surr: p-Terphenyl-d14 (Surr)	02	67.0 %	27-133	11/22/2017 10:00	11/28/2017 12:43							

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: CSO-2

Laboratory Sample ID: 17K0646-03

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
1,2,4,5-Tetrachlorobenzene	03	95-94-3	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
1,2,4-Trichlorobenzene	03	120-82-1	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
1,2-Dichlorobenzene	03	95-50-1	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
1,2-Diphenylhydrazine	03	122-66-7	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		10.5	10.5	4	ug/L	SKS
1,3-Dichlorobenzene	03	541-73-1	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
1,3-Dinitrobenzene	03	99-65-0	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		10.5	10.5	4	ug/L	SKS
1,4-Dichlorobenzene	03	106-46-7	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
1-Naphthylamine	03	134-32-7	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
2,3,4,6-Tetrachlorophenol	03	58-90-2	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
2,4,5-Trichlorophenol	03	95-95-4	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
2,4,6-Trichlorophenol	03	88-06-2	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
2,4-Dichlorophenol	03	120-83-2	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
2,4-Dimethylphenol	03	105-67-9	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		2.11	10.5	4	ug/L	SKS
2,4-Dinitrophenol	03	51-28-5	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		2.11	10.5	4	ug/L	SKS
2,4-Dinitrotoluene	03	121-14-2	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
2,6-Dichlorophenol	03	87-65-0	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
2,6-Dinitrotoluene	03	606-20-2	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
2-Chloronaphthalene	03	91-58-7	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
2-Chlorophenol	03	95-57-8	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
2-Methylnaphthalene	03	91-57-6	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
2-Naphthylamine	03	91-59-8	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
2-Nitroaniline	03	88-74-4	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
2-Nitrophenol	03	88-75-5	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
3,3'-Dichlorobenzidine	03	91-94-1	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		10.5	10.5	4	ug/L	SKS

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: CSO-2

Laboratory Sample ID: 17K0646-03

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatle Organic Compounds by GCMS												
3-Methylcholanthrene	03	56-49-5	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
3-Nitroaniline	03	99-09-2	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
4,6-Dinitro-2-methylphenol	03	534-52-1	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
4-Aminobiphenyl	03	92-67-1	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
4-Bromophenyl phenyl ether	03	101-55-3	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
4-Chloroaniline	03	106-47-8	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
4-Chlorophenyl phenyl ether	03	7005-72-3	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
4-Nitroaniline	03	100-01-6	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
4-Nitrophenol	03	100-02-7	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD	C	4.21	10.5	4	ug/L	SKS
7,12-Dimethylbenz (a) anthracene	03	57-97-6	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
Acenaphthene	03	83-32-9	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Acenaphthylene	03	208-96-8	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Acetophenone	03	98-86-2	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
Aniline	03	62-53-3	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
Anthracene	03	120-12-7	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Benzidine	03	92-87-5	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		10.5	10.5	4	ug/L	SKS
Benzo (a) anthracene	03	56-55-3	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Benzo (a) pyrene	03	50-32-8	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Benzo (b) fluoranthene	03	205-99-2	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Benzo (g,h,i) perylene	03	191-24-2	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Benzo (k) fluoranthene	03	207-08-9	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Benzoic acid	03	65-85-0	SW8270D	11/22/2017 10:00	11/28/2017 13:16	27.2	C	4.21	10.5	4	ug/L	SKS
Benzyl alcohol	03	100-51-6	SW8270D	11/22/2017 10:00	11/28/2017 13:16	11.5		4.21	10.5	4	ug/L	SKS
bis (2-Chloroethoxy) methane	03	111-91-1	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: CSO-2

Laboratory Sample ID: 17K0646-03

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
bis (2-Chloroethyl) ether	03	111-44-4	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
2,2'-Oxybis (1-chloropropane)	03	108-60-1	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
bis (2-Ethylhexyl) phthalate	03	117-81-7	SW8270D	11/22/2017 10:00	11/28/2017 13:16	5.26	J	4.21	10.5	4	ug/L	SKS
Butyl benzyl phthalate	03	85-68-7	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Chrysene	03	218-01-9	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Dibenz (a,h) anthracene	03	53-70-3	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Dibenz (a,j) acridine	03	224-42-0	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		10.5	10.5	4	ug/L	SKS
Dibenzofuran	03	132-64-9	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
Diethyl phthalate	03	84-66-2	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Dimethyl phthalate	03	131-11-3	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Di-n-butyl phthalate	03	84-74-2	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
Di-n-octyl phthalate	03	117-84-0	SW8270D	11/22/2017 10:00	11/28/2017 13:16	8.21	J	4.21	10.5	4	ug/L	SKS
Diphenylamine	03	122-39-4	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
Ethyl methanesulfonate	03	62-50-0	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Fluoranthene	03	206-44-0	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Fluorene	03	86-73-7	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Hexachlorobenzene	03	118-74-1	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Hexachlorobutadiene	03	87-68-3	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Hexachlorocyclopentadiene	03	77-47-4	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD	C	4.21	10.5	4	ug/L	SKS
Hexachloroethane	03	67-72-1	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Indeno (1,2,3-cd) pyrene	03	193-39-5	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Isophorone	03	78-59-1	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
m+p-Cresols	03	84989-04-8	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Methyl methanesulfonate	03	66-27-3	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: CSO-2

Laboratory Sample ID: 17K0646-03

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Naphthalene	03	91-20-3	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Nitrobenzene	03	98-95-3	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
n-Nitrosodimethylamine	03	62-75-9	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
n-Nitrosodi-n-butylamine	03	924-16-3	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
n-Nitrosodi-n-propylamine	03	621-64-7	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
n-Nitrosodiphenylamine	03	86-30-6	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
n-Nitrosopiperidine	03	100-75-4	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
o+m+p-Cresols	03	1319-77-3	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		10.5	10.5	4	ug/L	SKS
o-Cresol	03	95-48-7	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
p-(Dimethylamino) azobenzene	03	60-11-7	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
p-Chloro-m-cresol	03	59-50-7	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Pentachloronitrobenzene (quintozene)	03	82-68-8	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Pentachlorophenol	03	87-86-5	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Phenacetin	03	62-44-2	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Phenanthrene	03	85-01-8	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Phenol	03	108-95-2	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Pronamide	03	23950-58-5	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		8.42	10.5	4	ug/L	SKS
Pyrene	03	129-00-0	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Pyridine	03	110-86-1	SW8270D	11/22/2017 10:00	11/28/2017 13:16	BLOD		4.21	10.5	4	ug/L	SKS
Surr: 2,4,6-Tribromophenol (Surr)	03	71.4 %	20-86	11/22/2017 10:00	11/28/2017 13:16							
Surr: 2-Fluorobiphenyl (Surr)	03	44.6 %	23-87	11/22/2017 10:00	11/28/2017 13:16							
Surr: 2-Fluorophenol (Surr)	03	28.4 %	10-52	11/22/2017 10:00	11/28/2017 13:16							
Surr: Nitrobenzene-d5 (Surr)	03	48.7 %	10-98.5	11/22/2017 10:00	11/28/2017 13:16							
Surr: Phenol-d5 (Surr)	03	21.1 %	5-33	11/22/2017 10:00	11/28/2017 13:16							
Surr: p-Terphenyl-d14 (Surr)	03	90.2 %	27-133	11/22/2017 10:00	11/28/2017 13:16							

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: Trip Blank

Laboratory Sample ID: 17K0646-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
1,1,1,2-Tetrachloroethane	04	630-20-6	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.10	0.40	1	ug/L	JDW
1,1,1-Trichloroethane	04	71-55-6	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.70	1.00	1	ug/L	JDW
1,1,2,2-Tetrachloroethane	04	79-34-5	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.40	0.40	1	ug/L	JDW
1,1,2-Trichloroethane	04	79-00-5	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.50	1.00	1	ug/L	JDW
1,1-Dichloroethane	04	75-34-3	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.40	1.00	1	ug/L	JDW
1,1-Dichloroethylene	04	75-35-4	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.30	1.00	1	ug/L	JDW
1,1-Dichloropropene	04	563-58-6	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.20	1.00	1	ug/L	JDW
1,2,3-Trichlorobenzene	04	87-61-6	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.30	1.00	1	ug/L	JDW
1,2,3-Trichloropropane	04	96-18-4	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.40	1.00	1	ug/L	JDW
1,2,4-Trichlorobenzene	04	120-82-1	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.30	1.00	1	ug/L	JDW
1,2,4-Trimethylbenzene	04	95-63-6	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.20	1.00	1	ug/L	JDW
1,2-Dibromo-3-chloropropane (DBCP)	04	96-12-8	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.80	4.00	1	ug/L	JDW
1,2-Dibromoethane (EDB)	04	106-93-4	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.40	1.00	1	ug/L	JDW
1,2-Dichlorobenzene	04	95-50-1	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.20	1.00	1	ug/L	JDW
1,2-Dichloroethane	04	107-06-2	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.90	1.00	1	ug/L	JDW
1,2-Dichloropropane	04	78-87-5	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.60	1.00	1	ug/L	JDW
1,3,5-Trimethylbenzene	04	108-67-8	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.20	1.00	1	ug/L	JDW
1,3-Dichlorobenzene	04	541-73-1	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.20	1.00	1	ug/L	JDW
1,3-Dichloropropane	04	142-28-9	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.20	1.00	1	ug/L	JDW
1,4-Dichlorobenzene	04	106-46-7	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.40	1.00	1	ug/L	JDW
2,2-Dichloropropane	04	594-20-7	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.30	2.00	1	ug/L	JDW
2-Butanone (MEK)	04	78-93-3	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		5.00	10.0	1	ug/L	JDW
2-Chlorotoluene	04	95-49-8	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.20	1.00	1	ug/L	JDW
2-Hexanone (MBK)	04	591-78-6	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		5.00	5.00	1	ug/L	JDW

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: Trip Blank

Laboratory Sample ID: 17K0646-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
4-Chlorotoluene	04	106-43-4	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.20	1.00	1	ug/L	JDW
4-Isopropyltoluene	04	99-87-6	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.20	1.00	1	ug/L	JDW
4-Methyl-2-pentanone (MIBK)	04	108-10-1	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		5.00	5.00	1	ug/L	JDW
Acetone	04	67-64-1	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		7.00	10.0	1	ug/L	JDW
Benzene	04	71-43-2	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.30	1.00	1	ug/L	JDW
Bromobenzene	04	108-86-1	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.20	1.00	1	ug/L	JDW
Bromochloromethane	04	74-97-5	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.40	1.00	1	ug/L	JDW
Bromodichloromethane	04	75-27-4	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.30	0.50	1	ug/L	JDW
Bromoform	04	75-25-2	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.50	1.00	1	ug/L	JDW
Bromomethane	04	74-83-9	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.30	1.00	1	ug/L	JDW
Carbon disulfide	04	75-15-0	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		1.00	10.0	1	ug/L	JDW
Carbon tetrachloride	04	56-23-5	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.40	1.00	1	ug/L	JDW
Chlorobenzene	04	108-90-7	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.40	1.00	1	ug/L	JDW
Chloroethane	04	75-00-3	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.40	1.00	1	ug/L	JDW
Chloroform	04	67-66-3	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.40	0.50	1	ug/L	JDW
Chloromethane	04	74-87-3	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.50	1.00	1	ug/L	JDW
cis-1,2-Dichloroethylene	04	156-59-2	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.40	1.00	1	ug/L	JDW
cis-1,3-Dichloropropene	04	10061-01-5	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.20	1.00	1	ug/L	JDW
Dibromochloromethane	04	124-48-1	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.70	1.00	1	ug/L	JDW
Dibromomethane	04	74-95-3	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.30	1.00	1	ug/L	JDW
Dichlorodifluoromethane	04	75-71-8	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		1.00	1.00	1	ug/L	JDW
Di-isopropyl ether (DIPE)	04	108-20-3	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		5.00	5.00	1	ug/L	JDW
Ethylbenzene	04	100-41-4	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.20	1.00	1	ug/L	JDW
Hexachlorobutadiene	04	87-68-3	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		1.00	1.00	1	ug/L	JDW

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: E. Main St Parcels
 Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: Trip Blank

Laboratory Sample ID: 17K0646-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
Iodomethane	04	74-88-4	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		1.70	10.0	1	ug/L	JDW
Isopropylbenzene	04	98-82-8	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.20	1.00	1	ug/L	JDW
m+p-Xylenes	04	179601-23-1	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.50	2.00	1	ug/L	JDW
Methylene chloride	04	75-09-2	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		2.00	4.00	1	ug/L	JDW
Methyl-t-butyl ether (MTBE)	04	1634-04-4	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.40	1.00	1	ug/L	JDW
Naphthalene	04	91-20-3	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.50	1.00	1	ug/L	JDW
n-Butylbenzene	04	104-51-8	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.30	1.00	1	ug/L	JDW
n-Propylbenzene	04	103-65-1	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.10	1.00	1	ug/L	JDW
o-Xylene	04	95-47-6	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.50	1.00	1	ug/L	JDW
sec-Butylbenzene	04	135-98-8	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.10	1.00	1	ug/L	JDW
Styrene	04	100-42-5	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.20	1.00	1	ug/L	JDW
tert-Butylbenzene	04	98-06-6	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.10	1.00	1	ug/L	JDW
Tetrachloroethylene (PCE)	04	127-18-4	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.40	1.00	1	ug/L	JDW
Toluene	04	108-88-3	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.40	1.00	1	ug/L	JDW
trans-1,2-Dichloroethylene	04	156-60-5	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.40	1.00	1	ug/L	JDW
trans-1,3-Dichloropropene	04	10061-02-6	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.50	1.00	1	ug/L	JDW
Trichloroethylene	04	79-01-6	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.30	1.00	1	ug/L	JDW
Trichlorofluoromethane	04	75-69-4	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.20	1.00	1	ug/L	JDW
Vinyl acetate	04	108-05-4	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		2.20	10.0	1	ug/L	JDW
Vinyl chloride	04	75-01-4	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		0.30	0.50	1	ug/L	JDW
Xylenes, Total	04	1330-20-7	SW8260B	11/20/2017 14:06	11/20/2017 14:06	BLOD		1.00	3.00	1	ug/L	JDW
Surr: 1,2-Dichloroethane-d4 (Surr)	04	83.8 %	70-120	11/20/2017 14:06	11/20/2017 14:06							
Surr: 4-Bromofluorobenzene (Surr)	04	101 %	75-120	11/20/2017 14:06	11/20/2017 14:06							
Surr: Dibromofluoromethane (Surr)	04	80.1 %	80-119	11/20/2017 14:06	11/20/2017 14:06							

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Client Sample ID: Trip Blank

Laboratory Sample ID: 17K0646-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Organic Compounds by GCMS												
<i>Surr: Toluene-d8 (Surr)</i>	04	101 %	85-120	11/20/2017 14:06	11/20/2017 14:06							

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BAK0599 - SW7470A										
Blank (BAK0599-BLK1)				Prepared & Analyzed: 11/20/2017						
Mercury	BLOD	0.00020	mg/L							
LCS (BAK0599-BS1)				Prepared & Analyzed: 11/20/2017						
Mercury	0.00251	0.00020	mg/L	0.00250		101	80-120			
LCS Dup (BAK0599-BSD1)				Prepared & Analyzed: 11/20/2017						
Mercury	0.00247	0.00020	mg/L	0.00250		98.8	80-120	1.80	20	
Matrix Spike (BAK0599-MS1)				Source: 17K0470-01 Prepared & Analyzed: 11/20/2017						
Mercury	0.00242	0.00020	mg/L	0.00250	BLOD	96.8	80-120			
Matrix Spike (BAK0599-MS2)				Source: 17K0565-04 Prepared & Analyzed: 11/20/2017						
Mercury	0.00234	0.00020	mg/L	0.00250	0.00020	85.6	80-120			
Matrix Spike Dup (BAK0599-MSD1)				Source: 17K0470-01 Prepared & Analyzed: 11/20/2017						
Mercury	0.00254	0.00020	mg/L	0.00250	BLOD	102	80-120	4.89	20	
Matrix Spike Dup (BAK0599-MSD2)				Source: 17K0565-04 Prepared & Analyzed: 11/20/2017						
Mercury	0.00235	0.00020	mg/L	0.00250	0.00020	85.8	80-120	0.175	20	

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0660 - SW5030B

Blank (BAK0660-BLK1)

Prepared & Analyzed: 11/20/2017

1,1,1,2-Tetrachloroethane	BLOD	0.40	ug/L
1,1,1-Trichloroethane	BLOD	1.00	ug/L
1,1,2,2-Tetrachloroethane	BLOD	0.40	ug/L
1,1,2-Trichloroethane	BLOD	1.00	ug/L
1,1-Dichloroethane	BLOD	1.00	ug/L
1,1-Dichloroethylene	BLOD	1.00	ug/L
1,1-Dichloropropene	BLOD	1.00	ug/L
1,2,3-Trichlorobenzene	BLOD	1.00	ug/L
1,2,3-Trichloropropane	BLOD	1.00	ug/L
1,2,4-Trichlorobenzene	BLOD	1.00	ug/L
1,2,4-Trimethylbenzene	BLOD	1.00	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	BLOD	4.00	ug/L
1,2-Dibromoethane (EDB)	BLOD	1.00	ug/L
1,2-Dichlorobenzene	BLOD	1.00	ug/L
1,2-Dichloroethane	BLOD	1.00	ug/L
1,2-Dichloropropane	BLOD	1.00	ug/L
1,3,5-Trimethylbenzene	BLOD	1.00	ug/L
1,3-Dichlorobenzene	BLOD	1.00	ug/L
1,3-Dichloropropane	BLOD	1.00	ug/L
1,4-Dichlorobenzene	BLOD	1.00	ug/L
2,2-Dichloropropane	BLOD	2.00	ug/L
2-Butanone (MEK)	BLOD	10.0	ug/L
2-Chlorotoluene	BLOD	1.00	ug/L
2-Hexanone (MBK)	BLOD	5.00	ug/L
4-Chlorotoluene	BLOD	1.00	ug/L

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0660 - SW5030B

Blank (BAK0660-BLK1)

Prepared & Analyzed: 11/20/2017

4-Isopropyltoluene	BLOD	1.00	ug/L
4-Methyl-2-pentanone (MIBK)	BLOD	5.00	ug/L
Acetone	BLOD	10.0	ug/L
Benzene	BLOD	1.00	ug/L
Bromobenzene	BLOD	1.00	ug/L
Bromochloromethane	BLOD	1.00	ug/L
Bromodichloromethane	BLOD	0.50	ug/L
Bromoform	BLOD	1.00	ug/L
Bromomethane	BLOD	1.00	ug/L
Carbon disulfide	BLOD	10.0	ug/L
Carbon tetrachloride	BLOD	1.00	ug/L
Chlorobenzene	BLOD	1.00	ug/L
Chloroethane	BLOD	1.00	ug/L
Chloroform	BLOD	0.50	ug/L
Chloromethane	BLOD	1.00	ug/L
cis-1,2-Dichloroethylene	BLOD	1.00	ug/L
cis-1,3-Dichloropropene	BLOD	1.00	ug/L
Dibromochloromethane	BLOD	1.00	ug/L
Dibromomethane	BLOD	1.00	ug/L
Dichlorodifluoromethane	BLOD	1.00	ug/L
Di-isopropyl ether (DIPE)	BLOD	5.00	ug/L
Ethylbenzene	BLOD	1.00	ug/L
Hexachlorobutadiene	BLOD	1.00	ug/L
Iodomethane	BLOD	10.0	ug/L
Isopropylbenzene	BLOD	1.00	ug/L

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0660 - SW5030B

Blank (BAK0660-BLK1)

Prepared & Analyzed: 11/20/2017

m+p-Xylenes	BLOD	2.00	ug/L							
Methylene chloride	BLOD	4.00	ug/L							
Methyl-t-butyl ether (MTBE)	BLOD	1.00	ug/L							
Naphthalene	BLOD	1.00	ug/L							
n-Butylbenzene	BLOD	1.00	ug/L							
n-Propylbenzene	BLOD	1.00	ug/L							
o-Xylene	BLOD	1.00	ug/L							
sec-Butylbenzene	BLOD	1.00	ug/L							
Styrene	BLOD	1.00	ug/L							
tert-Butylbenzene	BLOD	1.00	ug/L							
Tetrachloroethylene (PCE)	BLOD	1.00	ug/L							
Toluene	BLOD	1.00	ug/L							
trans-1,2-Dichloroethylene	BLOD	1.00	ug/L							
trans-1,3-Dichloropropene	BLOD	1.00	ug/L							
Trichloroethylene	BLOD	1.00	ug/L							
Trichlorofluoromethane	BLOD	1.00	ug/L							
Vinyl acetate	BLOD	10.0	ug/L							
Vinyl chloride	BLOD	0.50	ug/L							
Xylenes, Total	BLOD	3.00	ug/L							
<hr/>										
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>40.3</i>		ug/L	<i>50.0</i>		<i>80.5</i>	<i>70-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>50.0</i>		ug/L	<i>50.0</i>		<i>99.9</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>40.2</i>		ug/L	<i>50.0</i>		<i>80.3</i>	<i>80-119</i>			
<i>Surr: Toluene-d8 (Surr)</i>	<i>50.7</i>		ug/L	<i>50.0</i>		<i>101</i>	<i>85-120</i>			

LCS (BAK0660-BS1)

Prepared & Analyzed: 11/20/2017

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0660 - SW5030B

LCS (BAK0660-BS1)

Prepared & Analyzed: 11/20/2017

1,1,1,2-Tetrachloroethane	50.4	0.4	ug/L	50.0		101	80-130			
1,1,1-Trichloroethane	43.5	1	ug/L	50.0		87.0	65-130			
1,1,2,2-Tetrachloroethane	42.9	0.4	ug/L	50.0		85.8	65-130			
1,1,2-Trichloroethane	49.5	1	ug/L	50.0		98.9	75-125			
1,1-Dichloroethane	47.6	1	ug/L	50.0		95.2	70-135			
1,1-Dichloroethylene	42.7	1	ug/L	50.0		85.3	70-130			
1,1-Dichloropropene	45.8	1	ug/L	50.0		91.5	75-135			
1,2,3-Trichlorobenzene	50.0	1	ug/L	50.0		100	55-140			
1,2,3-Trichloropropane	46.4	1	ug/L	50.0		92.9	75-125			
1,2,4-Trichlorobenzene	52.3	1	ug/L	50.0		105	65-135			
1,2,4-Trimethylbenzene	50.3	1	ug/L	50.0		101	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	44.9	4	ug/L	50.0		89.7	50-130			
1,2-Dibromoethane (EDB)	50.4	1	ug/L	50.0		101	80-120			
1,2-Dichlorobenzene	50.0	1	ug/L	50.0		100	70-120			
1,2-Dichloroethane	41.4	1	ug/L	50.0		82.9	70-130			
1,2-Dichloropropane	50.2	1	ug/L	50.0		100	75-125			
1,3,5-Trimethylbenzene	51.6	1	ug/L	50.0		103	75-125			
1,3-Dichlorobenzene	52.0	1	ug/L	50.0		104	75-125			
1,3-Dichloropropane	48.0	1	ug/L	50.0		95.9	75-125			
1,4-Dichlorobenzene	50.9	1	ug/L	50.0		102	75-125			
2,2-Dichloropropane	46.3	2	ug/L	50.0		92.7	70-135			
2-Butanone (MEK)	39.7	10	ug/L	50.0		79.4	30-150			
2-Chlorotoluene	50.9	1	ug/L	50.0		102	75-125			
2-Hexanone (MBK)	48.0	5	ug/L	50.0		96.0	55-130			
4-Chlorotoluene	51.6	1	ug/L	50.0		103	75-130			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0660 - SW5030B

LCS (BAK0660-BS1)

Prepared & Analyzed: 11/20/2017

4-Isopropyltoluene	51.3	1	ug/L	50.0		103	75-130			
4-Methyl-2-pentanone (MIBK)	46.5	5	ug/L	50.0		93.0	60-135			
Acetone	39.5	10	ug/L	50.0		79.0	40-140			
Benzene	50.8	1	ug/L	50.0		102	80-120			
Bromobenzene	49.2	1	ug/L	50.0		98.5	75-125			
Bromochloromethane	44.2	1	ug/L	50.0		88.3	65-130			
Bromodichloromethane	50.6	0.5	ug/L	50.0		101	75-120			
Bromoform	49.1	1	ug/L	50.0		98.1	70-130			
Bromomethane	43.5	1	ug/L	50.0		87.0	30-145			
Carbon disulfide	41.7	10	ug/L	50.0		83.4	35-160			
Carbon tetrachloride	53.3	1	ug/L	50.0		107	65-140			
Chlorobenzene	50.5	1	ug/L	50.0		101	80-120			
Chloroethane	46.4	1	ug/L	50.0		92.8	60-135			
Chloroform	44.8	0.5	ug/L	50.0		89.5	65-135			
Chloromethane	47.3	1	ug/L	50.0		94.6	40-125			
cis-1,2-Dichloroethylene	42.7	1	ug/L	50.0		85.5	70-125			
cis-1,3-Dichloropropene	49.2	1	ug/L	50.0		98.4	70-130			
Dibromochloromethane	48.3	1	ug/L	50.0		96.6	60-135			
Dibromomethane	47.8	1	ug/L	50.0		95.7	75-125			
Dichlorodifluoromethane	42.9	1	ug/L	50.0		85.8	30-155			
Ethylbenzene	50.1	1	ug/L	50.0		100	75-125			
Hexachlorobutadiene	50.4	1	ug/L	50.0		101	50-140			
Isopropylbenzene	54.0	1	ug/L	50.0		108	75-125			
m+p-Xylenes	103	2	ug/L	100		103	75-130			
Methylene chloride	44.0	4	ug/L	50.0		88.0	55-140			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0660 - SW5030B

LCS (BAK0660-BS1)

Prepared & Analyzed: 11/20/2017

Methyl-t-butyl ether (MTBE)	43.6	1	ug/L	50.0		87.1	65-125			
Naphthalene	49.5	1	ug/L	50.0		98.9	55-140			
n-Butylbenzene	55.0	1	ug/L	50.0		110	70-135			
n-Propylbenzene	54.4	1	ug/L	50.0		109	70-130			
o-Xylene	50.8	1	ug/L	50.0		102	80-120			
sec-Butylbenzene	52.9	1	ug/L	50.0		106	70-125			
Styrene	51.2	1	ug/L	50.0		102	65-135			
tert-Butylbenzene	52.6	1	ug/L	50.0		105	70-130			
Tetrachloroethylene (PCE)	72.9	1	ug/L	50.0		146	45-150			
Toluene	52.2	1	ug/L	50.0		104	75-120			
trans-1,2-Dichloroethylene	43.4	1	ug/L	50.0		86.9	60-140			
trans-1,3-Dichloropropene	48.4	1	ug/L	50.0		96.7	55-140			
Trichloroethylene	49.8	1	ug/L	50.0		99.6	70-125			
Trichlorofluoromethane	42.7	1	ug/L	50.0		85.4	60-145			
Vinyl chloride	41.2	0.5	ug/L	50.0		82.3	50-145			

Surr: 1,2-Dichloroethane-d4 (Surr)

39.9 ug/L 50.0 79.8 70-120

Surr: 4-Bromofluorobenzene (Surr)

49.9 ug/L 50.0 99.9 75-120

Surr: Dibromofluoromethane (Surr)

41.7 ug/L 50.0 83.4 80-119

Surr: Toluene-d8 (Surr)

49.4 ug/L 50.0 98.8 85-120

Matrix Spike (BAK0660-MS1)

Source: 17K0673-01

Prepared & Analyzed: 11/20/2017

1,1,1,2-Tetrachloroethane	47.5	0.4	ug/L	50.0	BLOD	95.1	80-130			
1,1,1-Trichloroethane	39.8	1	ug/L	50.0	BLOD	79.7	65-130			
1,1,2,2-Tetrachloroethane	44.7	0.4	ug/L	50.0	BLOD	89.3	65-130			
1,1,2-Trichloroethane	53.4	1	ug/L	50.0	BLOD	107	75-125			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0660 - SW5030B

Matrix Spike (BAK0660-MS1)	Source: 17K0673-01			Prepared & Analyzed: 11/20/2017						
1,1-Dichloroethane	45.2	1	ug/L	50.0	BLOD	90.4	70-135			
1,1-Dichloroethylene	38.4	1	ug/L	50.0	BLOD	76.8	70-130			
1,1-Dichloropropene	41.6	1	ug/L	50.0	BLOD	83.2	75-135			
1,2,3-Trichlorobenzene	44.1	1	ug/L	50.0	BLOD	88.1	55-140			
1,2,3-Trichloropropane	48.1	1	ug/L	50.0	BLOD	96.3	75-125			
1,2,4-Trichlorobenzene	42.3	1	ug/L	50.0	BLOD	84.7	65-135			
1,2,4-Trimethylbenzene	54.1	1	ug/L	50.0	8.49	91.2	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	45.0	4	ug/L	50.0	BLOD	90.0	50-130			
1,2-Dibromoethane (EDB)	50.2	1	ug/L	50.0	BLOD	100	80-120			
1,2-Dichlorobenzene	46.0	1	ug/L	50.0	BLOD	92.0	70-120			
1,2-Dichloroethane	42.4	1	ug/L	50.0	BLOD	84.9	70-130			
1,2-Dichloropropane	53.8	1	ug/L	50.0	BLOD	108	75-125			
1,3,5-Trimethylbenzene	49.0	1	ug/L	50.0	1.97	94.0	75-125			
1,3-Dichlorobenzene	44.7	1	ug/L	50.0	BLOD	89.4	75-125			
1,3-Dichloropropane	52.2	1	ug/L	50.0	BLOD	104	75-125			
1,4-Dichlorobenzene	44.2	1	ug/L	50.0	BLOD	88.5	75-125			
2,2-Dichloropropane	40.3	2	ug/L	50.0	BLOD	80.6	70-135			
2-Butanone (MEK)	41.7	10	ug/L	50.0	BLOD	83.5	30-150			
2-Chlorotoluene	46.4	1	ug/L	50.0	BLOD	92.9	75-125			
2-Hexanone (MBK)	48.5	5	ug/L	50.0	BLOD	97.0	55-130			
4-Chlorotoluene	45.3	1	ug/L	50.0	BLOD	90.7	75-130			
4-Isopropyltoluene	45.2	1	ug/L	50.0	BLOD	90.4	75-130			
4-Methyl-2-pentanone (MIBK)	50.3	5	ug/L	50.0	BLOD	101	60-135			
Acetone	53.6	10	ug/L	50.0	18.7	69.8	40-140			
Benzene	51.3	1	ug/L	50.0	BLOD	102	80-120			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0660 - SW5030B

Matrix Spike (BAK0660-MS1)	Source: 17K0673-01			Prepared & Analyzed: 11/20/2017						
Bromobenzene	45.7	1	ug/L	50.0	BLOD	91.3	75-125			
Bromochloromethane	41.7	1	ug/L	50.0	BLOD	83.4	65-130			
Bromodichloromethane	52.9	0.5	ug/L	50.0	BLOD	106	75-120			
Bromoform	45.9	1	ug/L	50.0	BLOD	91.8	70-130			
Bromomethane	36.2	1	ug/L	50.0	BLOD	72.5	30-145			
Carbon disulfide	37.2	10	ug/L	50.0	BLOD	74.5	35-160			
Carbon tetrachloride	49.1	1	ug/L	50.0	BLOD	98.2	65-140			
Chlorobenzene	47.4	1	ug/L	50.0	BLOD	94.8	80-120			
Chloroethane	44.2	1	ug/L	50.0	BLOD	88.3	60-135			
Chloroform	42.9	0.5	ug/L	50.0	BLOD	85.7	65-135			
Chloromethane	45.4	1	ug/L	50.0	BLOD	90.8	40-125			
cis-1,2-Dichloroethylene	39.8	1	ug/L	50.0	BLOD	79.6	70-125			
cis-1,3-Dichloropropene	50.6	1	ug/L	50.0	BLOD	101	70-130			
Dibromochloromethane	48.5	1	ug/L	50.0	BLOD	97.1	60-135			
Dibromomethane	51.1	1	ug/L	50.0	BLOD	102	75-125			
Dichlorodifluoromethane	38.0	1	ug/L	50.0	BLOD	75.9	30-155			
Ethylbenzene	48.4	1	ug/L	50.0	1.19	94.4	75-125			
Hexachlorobutadiene	43.6	1	ug/L	50.0	BLOD	87.3	50-140			
Isopropylbenzene	50.4	1	ug/L	50.0	BLOD	101	75-125			
m+p-Xylenes	103	2	ug/L	100	8.04	94.6	75-130			
Methylene chloride	41.9	4	ug/L	50.0	BLOD	83.7	55-140			
Methyl-t-butyl ether (MTBE)	48.9	1	ug/L	50.0	4.50	88.7	65-125			
Naphthalene	69.1	1	ug/L	50.0	21.0	96.2	55-140			
n-Butylbenzene	48.3	1	ug/L	50.0	BLOD	96.6	70-135			
n-Propylbenzene	49.0	1	ug/L	50.0	0.25	97.5	70-130			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0660 - SW5030B

Matrix Spike (BAK0660-MS1)	Source: 17K0673-01			Prepared & Analyzed: 11/20/2017						
o-Xylene	56.7	1	ug/L	50.0	7.88	97.7	80-120			
sec-Butylbenzene	49.0	1	ug/L	50.0	BLOD	98.1	70-125			
Styrene	47.7	1	ug/L	50.0	BLOD	95.3	65-135			
tert-Butylbenzene	47.6	1	ug/L	50.0	BLOD	95.2	70-130			
Tetrachloroethylene (PCE)	62.7	1	ug/L	50.0	BLOD	125	45-150			
Toluene	54.5	1	ug/L	50.0	3.54	102	75-120			
trans-1,2-Dichloroethylene	39.0	1	ug/L	50.0	BLOD	78.0	60-140			
trans-1,3-Dichloropropene	49.5	1	ug/L	50.0	BLOD	99.0	55-140			
Trichloroethylene	48.3	1	ug/L	50.0	BLOD	96.6	70-125			
Trichlorofluoromethane	38.1	1	ug/L	50.0	BLOD	76.1	60-145			
Vinyl chloride	39.4	0.5	ug/L	50.0	BLOD	78.9	50-145			
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<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	39.4		ug/L	50.0		78.7	70-120			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	52.3		ug/L	50.0		105	75-120			
<i>Surr: Dibromofluoromethane (Surr)</i>	37.9		ug/L	50.0		75.9	80-119			S
<i>Surr: Toluene-d8 (Surr)</i>	49.6		ug/L	50.0		99.3	85-120			

Matrix Spike Dup (BAK0660-MSD1)	Source: 17K0673-01			Prepared & Analyzed: 11/20/2017						
1,1,1,2-Tetrachloroethane	48.3	0.4	ug/L	50.0	BLOD	96.5	80-130	1.50	30	
1,1,1-Trichloroethane	39.5	1	ug/L	50.0	BLOD	79.0	65-130	0.829	30	
1,1,2,2-Tetrachloroethane	45.4	0.4	ug/L	50.0	BLOD	90.7	65-130	1.58	30	
1,1,2-Trichloroethane	53.1	1	ug/L	50.0	BLOD	106	75-125	0.610	30	
1,1-Dichloroethane	45.0	1	ug/L	50.0	BLOD	89.9	70-135	0.586	30	
1,1-Dichloroethylene	38.5	1	ug/L	50.0	BLOD	77.0	70-130	0.232	30	
1,1-Dichloropropene	41.7	1	ug/L	50.0	BLOD	83.4	75-135	0.274	30	
1,2,3-Trichlorobenzene	45.2	1	ug/L	50.0	BLOD	90.4	55-140	2.61	30	

Certificate of Analysis

Client Name: Timmons Group
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Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0660 - SW5030B

Matrix Spike Dup (BAK0660-MSD1)	Source: 17K0673-01			Prepared & Analyzed: 11/20/2017						
1,2,3-Trichloropropane	48.7	1	ug/L	50.0	BLOD	97.4	75-125	1.14	30	
1,2,4-Trichlorobenzene	42.9	1	ug/L	50.0	BLOD	85.9	65-135	1.41	30	
1,2,4-Trimethylbenzene	53.8	1	ug/L	50.0	8.49	90.7	75-130	0.500	30	
1,2-Dibromo-3-chloropropane (DBCP)	45.6	4	ug/L	50.0	BLOD	91.2	50-130	1.34	30	
1,2-Dibromoethane (EDB)	51.1	1	ug/L	50.0	BLOD	102	80-120	1.66	30	
1,2-Dichlorobenzene	46.3	1	ug/L	50.0	BLOD	92.6	70-120	0.698	30	
1,2-Dichloroethane	42.0	1	ug/L	50.0	BLOD	84.0	70-130	1.08	30	
1,2-Dichloropropane	54.0	1	ug/L	50.0	BLOD	108	75-125	0.441	30	
1,3,5-Trimethylbenzene	48.6	1	ug/L	50.0	1.97	93.2	75-125	0.791	30	
1,3-Dichlorobenzene	45.4	1	ug/L	50.0	BLOD	90.7	75-125	1.42	30	
1,3-Dichloropropane	52.4	1	ug/L	50.0	BLOD	105	75-125	0.243	30	
1,4-Dichlorobenzene	43.9	1	ug/L	50.0	BLOD	87.8	75-125	0.767	30	
2,2-Dichloropropane	39.6	2	ug/L	50.0	BLOD	79.2	70-135	1.85	30	
2-Butanone (MEK)	43.5	10	ug/L	50.0	BLOD	87.1	30-150	4.19	30	
2-Chlorotoluene	46.1	1	ug/L	50.0	BLOD	92.3	75-125	0.663	30	
2-Hexanone (MBK)	53.5	5	ug/L	50.0	BLOD	107	55-130	9.89	30	
4-Chlorotoluene	45.5	1	ug/L	50.0	BLOD	91.0	75-130	0.339	30	
4-Isopropyltoluene	44.5	1	ug/L	50.0	BLOD	89.0	75-130	1.47	30	
4-Methyl-2-pentanone (MIBK)	53.0	5	ug/L	50.0	BLOD	106	60-135	5.15	30	
Acetone	59.6	10	ug/L	50.0	18.7	81.7	40-140	10.5	30	
Benzene	51.5	1	ug/L	50.0	BLOD	103	80-120	0.535	30	
Bromobenzene	46.3	1	ug/L	50.0	BLOD	92.6	75-125	1.38	30	
Bromochloromethane	42.7	1	ug/L	50.0	BLOD	85.4	65-130	2.34	30	
Bromodichloromethane	53.4	0.5	ug/L	50.0	BLOD	107	75-120	0.943	30	
Bromoform	46.7	1	ug/L	50.0	BLOD	93.3	70-130	1.59	30	

Certificate of Analysis

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Submitted To: John Russell

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Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0660 - SW5030B

Matrix Spike Dup (BAK0660-MSD1)	Source: 17K0673-01			Prepared & Analyzed: 11/20/2017						
Bromomethane	38.4	1	ug/L	50.0	BLOD	76.8	30-145	5.76	30	
Carbon disulfide	38.5	10	ug/L	50.0	BLOD	77.0	35-160	3.30	30	
Carbon tetrachloride	49.0	1	ug/L	50.0	BLOD	98.1	65-140	0.181	30	
Chlorobenzene	47.4	1	ug/L	50.0	BLOD	94.8	80-120	0.0675	30	
Chloroethane	43.5	1	ug/L	50.0	BLOD	87.1	60-135	1.42	30	
Chloroform	42.6	0.5	ug/L	50.0	BLOD	85.1	65-135	0.723	30	
Chloromethane	43.3	1	ug/L	50.0	BLOD	86.7	40-125	4.64	30	
cis-1,2-Dichloroethylene	39.3	1	ug/L	50.0	BLOD	78.6	70-125	1.29	30	
cis-1,3-Dichloropropene	51.0	1	ug/L	50.0	BLOD	102	70-130	0.638	30	
Dibromochloromethane	49.5	1	ug/L	50.0	BLOD	99.0	60-135	1.96	30	
Dibromomethane	52.3	1	ug/L	50.0	BLOD	105	75-125	2.34	30	
Dichlorodifluoromethane	37.9	1	ug/L	50.0	BLOD	75.8	30-155	0.221	30	
Ethylbenzene	47.9	1	ug/L	50.0	1.19	93.4	75-125	0.989	30	
Hexachlorobutadiene	44.0	1	ug/L	50.0	BLOD	88.0	50-140	0.899	30	
Isopropylbenzene	49.9	1	ug/L	50.0	BLOD	99.9	75-125	0.913	30	
m+p-Xylenes	103	2	ug/L	100	8.04	95.0	75-130	0.317	30	
Methylene chloride	42.8	4	ug/L	50.0	BLOD	85.6	55-140	2.19	30	
Methyl-t-butyl ether (MTBE)	49.9	1	ug/L	50.0	4.50	90.9	65-125	2.18	30	
Naphthalene	71.0	1	ug/L	50.0	21.0	100	55-140	2.65	30	
n-Butylbenzene	48.1	1	ug/L	50.0	BLOD	96.1	70-135	0.525	30	
n-Propylbenzene	48.8	1	ug/L	50.0	0.25	97.2	70-130	0.315	30	
o-Xylene	56.4	1	ug/L	50.0	7.88	97.0	80-120	0.603	30	
sec-Butylbenzene	47.7	1	ug/L	50.0	BLOD	95.3	70-125	2.84	30	
Styrene	47.9	1	ug/L	50.0	BLOD	95.9	65-135	0.575	30	
tert-Butylbenzene	47.5	1	ug/L	50.0	BLOD	95.1	70-130	0.137	30	

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Volatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0660 - SW5030B

Matrix Spike Dup (BAK0660-MSD1)	Source: 17K0673-01		Prepared & Analyzed: 11/20/2017							
Tetrachloroethylene (PCE)	62.0	1	ug/L	50.0	BLOD	124	45-150	1.13	30	
Toluene	54.5	1	ug/L	50.0	3.54	102	75-120	0.103	30	
trans-1,2-Dichloroethylene	39.3	1	ug/L	50.0	BLOD	78.5	60-140	0.657	30	
trans-1,3-Dichloropropene	49.7	1	ug/L	50.0	BLOD	99.5	55-140	0.494	30	
Trichloroethylene	48.3	1	ug/L	50.0	BLOD	96.5	70-125	0.0601	30	
Trichlorofluoromethane	37.3	1	ug/L	50.0	BLOD	74.7	60-145	1.90	30	
Vinyl chloride	38.1	0.5	ug/L	50.0	BLOD	76.2	50-145	3.49	30	
<i>Surr: 1,2-Dichloroethane-d4 (Surr)</i>	<i>38.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>77.0</i>	<i>70-120</i>			
<i>Surr: 4-Bromofluorobenzene (Surr)</i>	<i>52.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>106</i>	<i>75-120</i>			
<i>Surr: Dibromofluoromethane (Surr)</i>	<i>37.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>74.7</i>	<i>80-119</i>			<i>S</i>
<i>Surr: Toluene-d8 (Surr)</i>	<i>49.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.6</i>	<i>85-120</i>			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0710 - SW3510C

Blank (BAK0710-BLK1)

Prepared: 11/22/2017 Analyzed: 11/28/2017

1,2,4,5-Tetrachlorobenzene	BLOD	10.0	ug/L							
1,2,4-Trichlorobenzene	BLOD	10.0	ug/L							
1,2-Dichlorobenzene	BLOD	10.0	ug/L							
1,2-Diphenylhydrazine	BLOD	10.0	ug/L							
1,3-Dichlorobenzene	BLOD	10.0	ug/L							
1,3-Dinitrobenzene	BLOD	2.50	ug/L							
1,4-Dichlorobenzene	BLOD	10.0	ug/L							
1-Naphthylamine	BLOD	10.0	ug/L							
2,3,4,6-Tetrachlorophenol	BLOD	10.0	ug/L							
2,4,5-Trichlorophenol	BLOD	10.0	ug/L							
2,4,6-Trichlorophenol	BLOD	10.0	ug/L							
2,4-Dichlorophenol	BLOD	10.0	ug/L							
2,4-Dimethylphenol	BLOD	0.50	ug/L							
2,4-Dinitrophenol	BLOD	50.0	ug/L							
2,4-Dinitrotoluene	BLOD	10.0	ug/L							
2,6-Dichlorophenol	BLOD	10.0	ug/L							
2,6-Dinitrotoluene	BLOD	10.0	ug/L							
2-Chloronaphthalene	BLOD	10.0	ug/L							
2-Chlorophenol	BLOD	10.0	ug/L							
2-Methylnaphthalene	BLOD	10.0	ug/L							
2-Naphthylamine	BLOD	10.0	ug/L							
2-Nitroaniline	BLOD	20.0	ug/L							
2-Nitrophenol	BLOD	10.0	ug/L							
3,3'-Dichlorobenzidine	BLOD	10.0	ug/L							
3-Methylcholanthrene	BLOD	10.0	ug/L							

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0710 - SW3510C

Blank (BAK0710-BLK1)

Prepared: 11/22/2017 Analyzed: 11/28/2017

3-Nitroaniline	BLOD	20.0	ug/L
4,6-Dinitro-2-methylphenol	BLOD	50.0	ug/L
4-Aminobiphenyl	BLOD	10.0	ug/L
4-Bromophenyl phenyl ether	BLOD	10.0	ug/L
4-Chloroaniline	BLOD	10.0	ug/L
4-Chlorophenyl phenyl ether	BLOD	10.0	ug/L
4-Nitroaniline	BLOD	20.0	ug/L
4-Nitrophenol	BLOD	50.0	ug/L
7,12-Dimethylbenz (a) anthracene	BLOD	10.0	ug/L
Acenaphthene	BLOD	10.0	ug/L
Acenaphthylene	BLOD	10.0	ug/L
Acetophenone	BLOD	20.0	ug/L
Aniline	BLOD	50.0	ug/L
Anthracene	BLOD	10.0	ug/L
Benzidine	BLOD	50.0	ug/L
Benzo (a) anthracene	BLOD	10.0	ug/L
Benzo (a) pyrene	BLOD	10.0	ug/L
Benzo (b) fluoranthene	BLOD	10.0	ug/L
Benzo (g,h,i) perylene	BLOD	10.0	ug/L
Benzo (k) fluoranthene	BLOD	10.0	ug/L
Benzoic acid	BLOD	50.0	ug/L
Benzyl alcohol	BLOD	20.0	ug/L
bis (2-Chloroethoxy) methane	BLOD	10.0	ug/L
bis (2-Chloroethyl) ether	BLOD	10.0	ug/L
2,2'-Oxybis (1-chloropropane)	BLOD	10.0	ug/L

Certificate of Analysis

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0710 - SW3510C

Blank (BAK0710-BLK1)

Prepared: 11/22/2017 Analyzed: 11/28/2017

bis (2-Ethylhexyl) phthalate	BLOD	10.0	ug/L							
Butyl benzyl phthalate	BLOD	10.0	ug/L							
Chrysene	BLOD	10.0	ug/L							
Dibenz (a,h) anthracene	BLOD	10.0	ug/L							
Dibenz (a,j) acridine	BLOD	10.0	ug/L							
Dibenzofuran	BLOD	5.00	ug/L							
Diethyl phthalate	BLOD	10.0	ug/L							
Dimethyl phthalate	BLOD	10.0	ug/L							
Di-n-butyl phthalate	BLOD	10.0	ug/L							
Di-n-octyl phthalate	BLOD	10.0	ug/L							
Diphenylamine	BLOD	10.0	ug/L							
Ethyl methanesulfonate	BLOD	20.0	ug/L							
Fluoranthene	BLOD	10.0	ug/L							
Fluorene	BLOD	10.0	ug/L							
Hexachlorobenzene	BLOD	1.00	ug/L							
Hexachlorobutadiene	BLOD	10.0	ug/L							
Hexachlorocyclopentadiene	BLOD	10.0	ug/L							
Hexachloroethane	BLOD	10.0	ug/L							
Indeno (1,2,3-cd) pyrene	BLOD	10.0	ug/L							
Isophorone	BLOD	10.0	ug/L							
m+p-Cresols	BLOD	10.0	ug/L							
Methyl methanesulfonate	BLOD	10.0	ug/L							
Naphthalene	BLOD	5.00	ug/L							
Nitrobenzene	BLOD	10.0	ug/L							
n-Nitrosodimethylamine	BLOD	10.0	ug/L							

Certificate of Analysis

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0710 - SW3510C

Blank (BAK0710-BLK1)

Prepared: 11/22/2017 Analyzed: 11/28/2017

n-Nitrosodi-n-butylamine	BLOD	10.0	ug/L							
n-Nitrosodi-n-propylamine	BLOD	10.0	ug/L							
n-Nitrosodiphenylamine	BLOD	10.0	ug/L							
n-Nitrosopiperidine	BLOD	10.0	ug/L							
o+m+p-Cresols	BLOD	10.0	ug/L							
o-Cresol	BLOD	10.0	ug/L							
p-(Dimethylamino) azobenzene	BLOD	2.50	ug/L							
p-Chloro-m-cresol	BLOD	10.0	ug/L							
Pentachloronitrobenzene (quintozene)	BLOD	10.0	ug/L							
Pentachlorophenol	BLOD	20.0	ug/L							
Phenacetin	BLOD	10.0	ug/L							
Phenanthrene	BLOD	10.0	ug/L							
Phenol	BLOD	10.0	ug/L							
Pronamide	BLOD	10.0	ug/L							
Pyrene	BLOD	10.0	ug/L							
Pyridine	BLOD	10.0	ug/L							
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<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	61.4		ug/L	100		61.4	20-86			
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	33.2		ug/L	50.0		66.5	23-87			
<i>Surr: 2-Fluorophenol (Surr)</i>	43.4		ug/L	100		43.4	10-52			
<i>Surr: Nitrobenzene-d5 (Surr)</i>	35.8		ug/L	50.0		71.6	10-98.5			
<i>Surr: Phenol-d5 (Surr)</i>	34.2		ug/L	100		34.2	5-33			S
<i>Surr: p-Terphenyl-d14 (Surr)</i>	39.8		ug/L	50.0		79.7	27-133			

LCS (BAK0710-BS1)

Prepared: 11/22/2017 Analyzed: 11/28/2017

1,2,4-Trichlorobenzene	51.3	10.0	ug/L	100		51.3	21.8-66.7			
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Certificate of Analysis

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Date Issued: 11/29/2017 10:58:32AM

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0710 - SW3510C

LCS (BAK0710-BS1)

Prepared: 11/22/2017 Analyzed: 11/28/2017

1,2-Dichlorobenzene	52.7	10.0	ug/L	100		52.7	22-60			
1,3-Dichlorobenzene	47.8	10.0	ug/L	100		47.8	22-60			
1,4-Dichlorobenzene	47.7	10.0	ug/L	100		47.7	13-68			
1-Chloronaphthalene	67.8	10.0	ug/L				0-200			
2,4,6-Trichlorophenol	66.0	10.0	ug/L	100		66.0	50-115			
2,4-Dichlorophenol	65.8	10.0	ug/L	100		65.8	50-105			
2,4-Dimethylphenol	70.0	0.50	ug/L	100		70.0	30-110			
2,4-Dinitrophenol	92.3	50.0	ug/L	100		92.3	15-140			
2,4-Dinitrotoluene	97.8	10.0	ug/L	100		97.8	21-99			
2,6-Dinitrotoluene	82.4	10.0	ug/L	100		82.4	15-140			
2-Chloronaphthalene	65.5	10.0	ug/L	100		65.5	45-105			
2-Chlorophenol	63.8	10.0	ug/L	100		63.8	15-74			
2-Nitrophenol	65.3	10.0	ug/L	100		65.3	40-115			
3,3'-Dichlorobenzidine	72.3	10.0	ug/L	100		72.3	20-110			
4,6-Dinitro-2-methylphenol	95.4	50.0	ug/L	100		95.4	40-130			
4-Bromophenyl phenyl ether	80.2	10.0	ug/L	100		80.2	15-110			
4-Chlorophenyl phenyl ether	74.8	10.0	ug/L	100		74.8	15-110			
4-Nitrophenol	45.7	50.0	ug/L	100		45.7	0-125			
Acenaphthene	75.1	10.0	ug/L	100		75.1	27.7-85.5			
Acenaphthylene	79.6	10.0	ug/L	100		79.6	50-105			
Acetophenone	56.7	20.0	ug/L	100		56.7	0-200			
alpha-Terpineol	67.0	2.50	ug/L	100		67.0	0-200			
Anthracene	85.1	10.0	ug/L	100		85.1	55-110			
Benzo (a) anthracene	90.9	10.0	ug/L	100		90.9	55-110			
Benzo (a) pyrene	84.6	10.0	ug/L	100		84.6	55-110			

Certificate of Analysis

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Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0710 - SW3510C

LCS (BAK0710-BS1)

Prepared: 11/22/2017 Analyzed: 11/28/2017

Benzo (b) fluoranthene	96.5	10.0	ug/L	100		96.5	45-120			
Benzo (g,h,i) perylene	66.8	10.0	ug/L	100		66.8	40-125			
Benzo (k) fluoranthene	86.1	10.0	ug/L	100		86.1	45-125			
bis (2-Chloroethoxy) methane	68.8	10.0	ug/L	100		68.8	40-125			
bis (2-Chloroethyl) ether	70.8	10.0	ug/L	100		70.8	40-125			
2,2'-Oxybis (1-chloropropane)	65.2	10.0	ug/L	100		65.2	40-125			
bis (2-Ethylhexyl) phthalate	90.0	10.0	ug/L	100		90.0	40-125			
Butyl benzyl phthalate	91.8	10.0	ug/L	100		91.8	45-115			
Carbazole	92.5	2.50	ug/L	100		92.5	0-200			
Chrysene	87.9	10.0	ug/L	100		87.9	55-110			
Dibenz (a,h) anthracene	76.8	10.0	ug/L	100		76.8	40-125			
Diethyl phthalate	78.9	10.0	ug/L	100		78.9	40-120			
Dimethyl phthalate	80.5	10.0	ug/L	100		80.5	25-125			
Di-n-butyl phthalate	81.4	10.0	ug/L	100		81.4	55-115			
Di-n-octyl phthalate	101	10.0	ug/L	100		101	35-135			
Fluoranthene	91.3	10.0	ug/L	100		91.3	55-115			
Fluorene	80.7	10.0	ug/L	100		80.7	50-110			
Hexachlorobenzene	78.6	1.00	ug/L	100		78.6	25-125			
Hexachlorobutadiene	52.6	10.0	ug/L	100		52.6	25-125			
Hexachlorocyclopentadiene	36.4	10.0	ug/L	100		36.4	25-125			
Hexachloroethane	47.5	10.0	ug/L	100		47.5	25-125			
Indeno (1,2,3-cd) pyrene	72.3	10.0	ug/L	100		72.3	45-125			
Isophorone	54.1	10.0	ug/L	100		54.1	10-110			
Naphthalene	53.2	5.00	ug/L	100		53.2	40-100			
Nitrobenzene	71.0	10.0	ug/L	100		71.0	40-100			

Certificate of Analysis

Client Name: Timmons Group
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Date Issued: 11/29/2017 10:58:32AM

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0710 - SW3510C

LCS (BAK0710-BS1)

Prepared: 11/22/2017 Analyzed: 11/28/2017

n-Nitrosodimethylamine	47.6	10.0	ug/L	100		47.6	25-110			
n-Nitrosodi-n-propylamine	67.0	10.0	ug/L	100		67.0	12-97			
n-Nitrosodiphenylamine	72.9	10.0	ug/L	100		72.9	12-97			
p-Chloro-m-cresol	74.9	10.0	ug/L	100		74.9	10-91			
Pentachlorophenol	83.5	20.0	ug/L	100		83.5	30-109			
Phenanthrene	80.1	10.0	ug/L	100		80.1	50-115			
Phenol	36.5	10.0	ug/L	101		36.1	0-115			
Pyrene	84.7	10.0	ug/L	100		84.7	27-110			
Pyridine	40.4	10.0	ug/L	100		40.4	0-200			
<hr/>										
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	83.1		ug/L	100		83.1	20-86			
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	33.6		ug/L	50.0		67.2	23-87			
<i>Surr: 2-Fluorophenol (Surr)</i>	47.7		ug/L	100		47.7	10-52			
<i>Surr: Nitrobenzene-d5 (Surr)</i>	35.4		ug/L	50.0		70.8	10-98.5			
<i>Surr: Phenol-d5 (Surr)</i>	35.0		ug/L	100		35.0	5-33			S
<i>Surr: p-Terphenyl-d14 (Surr)</i>	48.5		ug/L	50.0		97.0	27-133			

Matrix Spike (BAK0710-MS1)

Source: 17K0692-04

Prepared: 11/22/2017 Analyzed: 11/28/2017

1,2,4-Trichlorobenzene	21.4	10.4	ug/L	104	BLOD	20.6	21.8-66.7			M
1,2-Dichlorobenzene	19.9	10.4	ug/L	104	BLOD	19.1	22-60			M
1,3-Dichlorobenzene	18.0	10.4	ug/L	104	BLOD	17.3	22-60			M
1,4-Dichlorobenzene	18.9	10.4	ug/L	104	BLOD	18.1	22-60			M
1-Chloronaphthalene	26.8	10.4	ug/L		BLOD		0-200			
2,4,6-Trichlorophenol	28.0	10.4	ug/L	104	BLOD	26.8	50-115			M
2,4-Dichlorophenol	24.8	10.4	ug/L	104	BLOD	23.8	50-105			M
2,4-Dimethylphenol	20.2	0.52	ug/L	104	BLOD	19.4	30-110			M

Certificate of Analysis

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Date Issued: 11/29/2017 10:58:32AM

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0710 - SW3510C

Matrix Spike (BAK0710-MS1)	Source: 17K0692-04			Prepared: 11/22/2017 Analyzed: 11/28/2017						
2,4-Dinitrophenol	33.4	52.1	ug/L	104	BLOD	32.1	15-140			
2,4-Dinitrotoluene	53.3	10.4	ug/L	104	BLOD	51.2	17-111			
2,6-Dinitrotoluene	42.0	10.4	ug/L	104	BLOD	40.3	15-140			
2-Chloronaphthalene	24.9	10.4	ug/L	104	BLOD	23.9	45-105			M
2-Chlorophenol	22.5	10.4	ug/L	104	BLOD	21.6	19-64			
2-Nitrophenol	23.0	10.4	ug/L	104	BLOD	22.1	40-115			M
3,3'-Dichlorobenzidine	43.8	10.4	ug/L	104	BLOD	42.0	20-110			
4,6-Dinitro-2-methylphenol	39.3	52.1	ug/L	104	BLOD	37.7	40-130			M
4-Bromophenyl phenyl ether	55.4	10.4	ug/L	104	BLOD	53.2	15-110			
4-Chlorophenyl phenyl ether	44.3	10.4	ug/L	104	BLOD	42.6	15-110			
4-Nitrophenol	18.5	52.1	ug/L	104	BLOD	17.7	0-125			
Acenaphthene	32.7	10.4	ug/L	104	BLOD	31.4	24-90			
Acenaphthylene	32.9	10.4	ug/L	104	BLOD	31.6	50-105			M
Acetophenone	23.6	20.8	ug/L	104	BLOD	22.7	0-200			
alpha-Terpineol	26.4	2.60	ug/L	104	BLOD	25.4	0-200			
Anthracene	56.8	10.4	ug/L	104	BLOD	54.5	55-110			M
Benzo (a) anthracene	63.2	10.4	ug/L	104	BLOD	60.6	55-110			
Benzo (a) pyrene	64.3	10.4	ug/L	104	BLOD	61.7	55-110			
Benzo (b) fluoranthene	70.0	10.4	ug/L	104	BLOD	67.2	45-120			
Benzo (k) fluoranthene	71.1	10.4	ug/L	104	BLOD	68.3	45-125			
bis (2-Chloroethoxy) methane	22.6	10.4	ug/L	104	BLOD	21.7	40-125			M
bis (2-Chloroethyl) ether	23.2	10.4	ug/L	104	BLOD	22.3	40-125			M
2,2'-Oxybis (1-chloropropane)	20.6	10.4	ug/L	104	BLOD	19.8	40-125			M
bis (2-Ethylhexyl) phthalate	65.6	10.4	ug/L	104	BLOD	62.9	40-125			
Butyl benzyl phthalate	61.0	10.4	ug/L	104	BLOD	58.6	45-115			

Certificate of Analysis

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0710 - SW3510C

Matrix Spike (BAK0710-MS1)	Source: 17K0692-04			Prepared: 11/22/2017 Analyzed: 11/28/2017						
Carbazole	72.6	2.60	ug/L	104	BLOD	69.7	0-200			
Chrysene	59.3	10.4	ug/L	104	BLOD	56.9	55-110			
Dibenz (a,h) anthracene	61.3	10.4	ug/L	104	BLOD	58.8	40-125			
Diethyl phthalate	55.9	10.4	ug/L	104	BLOD	53.7	40-120			
Dimethyl phthalate	48.3	10.4	ug/L	104	BLOD	46.3	25-125			
Di-n-butyl phthalate	45.5	10.4	ug/L	104	BLOD	43.7	55-115			M
Di-n-octyl phthalate	64.2	10.4	ug/L	104	BLOD	61.7	35-135			
Fluoranthene	54.4	10.4	ug/L	104	1.33	50.9	55-115			M
Fluorene	47.9	10.4	ug/L	104	BLOD	46.0	50-110			M
Hexachlorobenzene	59.9	1.04	ug/L	104	BLOD	57.5	25-125			
Hexachlorobutadiene	22.8	10.4	ug/L	104	BLOD	21.9	25-125			M
Hexachlorocyclopentadiene	6.05	10.4	ug/L	104	BLOD	5.81	25-125			M
Hexachloroethane	15.3	10.4	ug/L	104	BLOD	14.7	25-125			M
Indeno (1,2,3-cd) pyrene	59.5	10.4	ug/L	104	BLOD	57.1	45-125			
Isophorone	17.5	10.4	ug/L	104	BLOD	16.8	10-110			
Naphthalene	24.3	5.21	ug/L	104	BLOD	23.3	40-100			M
Nitrobenzene	23.4	10.4	ug/L	104	BLOD	22.5	40-100			M
n-Nitrosodimethylamine	13.7	10.4	ug/L	104	BLOD	13.2	25-110			M
n-Nitrosodi-n-propylamine	23.3	10.4	ug/L	104	BLOD	22.3	12-97			
n-Nitrosodiphenylamine	48.2	10.4	ug/L	104	BLOD	46.3	12-97			
p-Chloro-m-cresol	30.2	10.4	ug/L	104	BLOD	29.0	10-91			
Pentachlorophenol	40.8	20.8	ug/L	104	BLOD	39.1	27-109			
Phenanthrene	58.3	10.4	ug/L	104	BLOD	55.9	50-115			
Phenol	10.8	10.4	ug/L	105	BLOD	10.3	0-115			
Pyrene	54.9	10.4	ug/L	104	BLOD	52.7	23-110			

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0710 - SW3510C

Matrix Spike (BAK0710-MS1)	Source: 17K0692-04		Prepared: 11/22/2017 Analyzed: 11/28/2017							
Pyridine	12.0	10.4	ug/L	104	BLOD	11.5	0-200			
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	52.9		ug/L	104		50.7	20-86			
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	13.2		ug/L	52.1		25.3	23-87			
<i>Surr: 2-Fluorophenol (Surr)</i>	15.9		ug/L	104		15.2	10-52			
<i>Surr: Nitrobenzene-d5 (Surr)</i>	12.9		ug/L	52.1		24.8	10-98.5			
<i>Surr: Phenol-d5 (Surr)</i>	10.8		ug/L	104		10.4	5-33			
<i>Surr: p-Terphenyl-d14 (Surr)</i>	41.1		ug/L	52.1		78.9	27-133			
Matrix Spike Dup (BAK0710-MSD1)	Source: 17K0692-04		Prepared: 11/22/2017 Analyzed: 11/28/2017							
1,2,4-Trichlorobenzene	32.3	10.2	ug/L	102	BLOD	31.7	21.8-66.7	40.6	20	P
1,2-Dichlorobenzene	29.1	10.2	ug/L	102	BLOD	28.6	22-60	37.5	20	P
1,3-Dichlorobenzene	26.4	10.2	ug/L	102	BLOD	25.8	22-60	37.6	20	P
1,4-Dichlorobenzene	27.2	10.2	ug/L	102	BLOD	26.6	22-60	35.9	20	P
1-Chloronaphthalene	41.6	10.2	ug/L		BLOD		0-200	43.4	20	P
2,4,6-Trichlorophenol	41.8	10.2	ug/L	102	BLOD	41.0	50-115	39.7	20	M, P
2,4-Dichlorophenol	36.3	10.2	ug/L	102	BLOD	35.5	50-105	37.5	20	M, P
2,4-Dimethylphenol	29.6	0.51	ug/L	102	BLOD	29.0	30-110	37.7	20	M, P
2,4-Dinitrophenol	50.7	51.0	ug/L	102	BLOD	49.7	15-140	41.0	20	P
2,4-Dinitrotoluene	67.2	10.2	ug/L	102	BLOD	65.8	17-111	23.0	20	P
2,6-Dinitrotoluene	57.5	10.2	ug/L	102	BLOD	56.4	15-140	31.2	20	P
2-Chloronaphthalene	38.5	10.2	ug/L	102	BLOD	37.7	45-105	43.0	20	M, P
2-Chlorophenol	31.5	10.2	ug/L	102	BLOD	30.8	19-64	33.3	20	P
2-Nitrophenol	34.2	10.2	ug/L	102	BLOD	33.6	40-115	39.1	20	M, P
3,3'-Dichlorobenzidine	52.1	10.2	ug/L	102	BLOD	51.0	20-110	17.3	20	
4,6-Dinitro-2-methylphenol	56.8	51.0	ug/L	102	BLOD	55.7	40-130	36.4	20	P

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0710 - SW3510C

Matrix Spike Dup (BAK0710-MSD1)	Source: 17K0692-04		Prepared: 11/22/2017 Analyzed: 11/28/2017							
4-Bromophenyl phenyl ether	65.8	10.2	ug/L	102	BLOD	64.4	15-110	17.1	20	
4-Chlorophenyl phenyl ether	58.0	10.2	ug/L	102	BLOD	56.9	15-110	26.8	20	P
4-Nitrophenol	23.2	51.0	ug/L	102	BLOD	22.7	0-125	22.7	20	P
Acenaphthene	47.9	10.2	ug/L	102	BLOD	46.9	24-90	37.8	20	P
Acenaphthylene	48.9	10.2	ug/L	102	BLOD	47.9	50-105	39.1	20	M, P
Acetophenone	33.0	20.4	ug/L	102	BLOD	32.3	0-200	33.0	20	P
alpha-Terpineol	39.3	2.55	ug/L	102	BLOD	38.5	0-200	39.2	20	P
Anthracene	61.9	10.2	ug/L	102	BLOD	60.7	55-110	8.62	20	
Benzo (a) anthracene	68.2	10.2	ug/L	102	BLOD	66.8	55-110	7.68	20	
Benzo (a) pyrene	73.4	10.2	ug/L	102	BLOD	72.0	55-110	13.3	20	
Benzo (b) fluoranthene	77.4	10.2	ug/L	102	BLOD	75.9	45-120	9.99	20	
Benzo (g,h,i) perylene	64.3	10.2	ug/L	102	BLOD	63.0	40-125		20	
Benzo (k) fluoranthene	81.9	10.2	ug/L	102	BLOD	80.3	45-125	14.1	20	
bis (2-Chloroethoxy) methane	33.3	10.2	ug/L	102	BLOD	32.7	40-125	38.2	20	M, P
bis (2-Chloroethyl) ether	33.9	10.2	ug/L	102	BLOD	33.2	40-125	37.4	20	M, P
2,2'-Oxybis (1-chloropropane)	30.9	10.2	ug/L	102	BLOD	30.2	40-125	39.9	20	M, P
bis (2-Ethylhexyl) phthalate	68.1	10.2	ug/L	102	BLOD	66.7	40-125	3.74	20	
Butyl benzyl phthalate	67.8	10.2	ug/L	102	BLOD	66.4	45-115	10.5	20	
Carbazole	78.7	2.55	ug/L	102	BLOD	77.1	0-200	8.03	20	
Chrysene	75.6	10.2	ug/L	102	BLOD	74.1	55-110	24.2	20	P
Dibenz (a,h) anthracene	71.9	10.2	ug/L	102	BLOD	70.4	40-125	15.9	20	
Diethyl phthalate	65.1	10.2	ug/L	102	BLOD	63.8	40-120	15.2	20	
Dimethyl phthalate	60.6	10.2	ug/L	102	BLOD	59.4	25-125	22.7	20	P
Di-n-butyl phthalate	52.8	10.2	ug/L	102	BLOD	51.7	55-115	14.8	20	M
Di-n-octyl phthalate	63.9	10.2	ug/L	102	BLOD	62.7	35-135	0.469	20	

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0710 - SW3510C

Matrix Spike Dup (BAK0710-MSD1)	Source: 17K0692-04		Prepared: 11/22/2017 Analyzed: 11/28/2017							
Fluoranthene	63.3	10.2	ug/L	102	1.33	60.7	55-115	15.1	20	
Fluorene	60.5	10.2	ug/L	102	BLOD	59.3	50-110	23.2	20	P
Hexachlorobenzene	67.9	1.02	ug/L	102	BLOD	66.6	25-125	12.6	20	
Hexachlorobutadiene	36.0	10.2	ug/L	102	BLOD	35.3	25-125	44.9	20	P
Hexachlorocyclopentadiene	10.9	10.2	ug/L	102	BLOD	10.7	25-125	57.4	20	M, P
Hexachloroethane	23.4	10.2	ug/L	102	BLOD	23.0	25-125	42.1	20	M, P
Indeno (1,2,3-cd) pyrene	69.4	10.2	ug/L	102	BLOD	68.0	45-125	15.4	20	
Isophorone	26.6	10.2	ug/L	102	BLOD	26.1	10-110	41.7	20	P
Naphthalene	35.7	5.10	ug/L	102	BLOD	35.0	40-100	38.0	20	M, P
Nitrobenzene	34.7	10.2	ug/L	102	BLOD	34.0	40-100	38.6	20	M, P
n-Nitrosodimethylamine	21.0	10.2	ug/L	102	BLOD	20.6	25-110	41.9	20	M, P
n-Nitrosodi-n-propylamine	33.8	10.2	ug/L	102	BLOD	33.1	12-97	36.8	20	P
n-Nitrosodiphenylamine	57.0	10.2	ug/L	102	BLOD	55.9	12-97	16.7	20	
p-Chloro-m-cresol	44.1	10.2	ug/L	102	BLOD	43.2	10-91	37.3	20	P
Pentachlorophenol	49.9	20.4	ug/L	102	BLOD	49.0	27-109	20.2	20	P
Phenanthrene	64.5	10.2	ug/L	102	BLOD	63.2	50-115	10.1	20	
Phenol	15.2	10.2	ug/L	103	BLOD	14.7	0-115	33.5	20	P
Pyrene	58.1	10.2	ug/L	102	BLOD	56.9	23-110	5.53	20	
Pyridine	17.3	10.2	ug/L	102	BLOD	17.0	0-200	36.2	20	P
<hr/>										
Surr: 2,4,6-Tribromophenol (Surr)	59.5		ug/L	102		58.3	20-86			
Surr: 2-Fluorobiphenyl (Surr)	19.0		ug/L	51.0		37.2	23-87			
Surr: 2-Fluorophenol (Surr)	20.7		ug/L	102		20.3	10-52			
Surr: Nitrobenzene-d5 (Surr)	17.4		ug/L	51.0		34.2	10-98.5			
Surr: Phenol-d5 (Surr)	14.1		ug/L	102		13.8	5-33			
Surr: p-Terphenyl-d14 (Surr)	43.0		ug/L	51.0		84.2	27-133			

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Wet Chemistry Analysis - Quality Control
Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BAK0577 - No Prep Wet Chem										
Blank (BAK0577-BLK1)				Prepared & Analyzed: 11/17/2017						
Chromium, Hexavalent	BLOD	0.005	mg/L							
LCS (BAK0577-BS1)				Prepared & Analyzed: 11/17/2017						
Chromium, Hexavalent	0.101	0.005	mg/L	0.100		101	80-120			

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Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis					
			Preparation Method:	No Prep Wet Chem	
17K0646-01	25.0 mL / 25.0 mL	SW7196A	BAK0577	SAK0535	AK70105
Semivolatile Organic Compounds by GCMS					
			Preparation Method:	SW3510C	
17K0646-02	910 mL / 1.00 mL	SW8270D	BAK0710	SAK0775	AK70079
17K0646-03	950 mL / 1.00 mL	SW8270D	BAK0710	SAK0775	AK70079
Volatile Organic Compounds by GCMS					
			Preparation Method:	SW5030B	
17K0646-01	5.00 mL / 5.00 mL	SW8260B	BAK0660	SAK0633	AK70114
17K0646-04	5.00 mL / 5.00 mL	SW8260B	BAK0660	SAK0633	AK70114
Metals (Total) by EPA 6000/7000 Series Methods					
			Preparation Method:	SW7470A	
17K0646-01	20.0 mL / 20.0 mL	SW7470A	BAK0599	SAK0593	AK70115

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Client Site I.D.: E. Main St Parcels
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Certified Analyses included in this Report

Analyte	Certifications
SW7196A in Non-Potable Water	
Chromium, Hexavalent	VELAP
SW7470A in Non-Potable Water	
Mercury	VELAP,NC,WVDEP
SW8260B in Non-Potable Water	
1,1,1,2-Tetrachloroethane	NC,VELAP,WVDEP
1,1,1-Trichloroethane	NC,VELAP,WVDEP
1,1,2,2-Tetrachloroethane	NC,VELAP,WVDEP
1,1,2-Trichloroethane	NC,VELAP,WVDEP
1,1-Dichloroethane	NC,VELAP,WVDEP
1,1-Dichloroethylene	NC,VELAP,WVDEP
1,1-Dichloropropene	NC,VELAP,WVDEP
1,2,3-Trichlorobenzene	NC,VELAP,WVDEP
1,2,3-Trichloropropane	NC,VELAP,WVDEP
1,2,4-Trichlorobenzene	NC,VELAP,WVDEP
1,2,4-Trimethylbenzene	NC,VELAP,WVDEP
1,2-Dibromo-3-chloropropane (DBCP)	NC,VELAP,WVDEP
1,2-Dibromoethane (EDB)	NC,VELAP,WVDEP
1,2-Dichlorobenzene	NC,VELAP,WVDEP
1,2-Dichloroethane	NC,VELAP,WVDEP
1,2-Dichloropropane	NC,VELAP,WVDEP
1,3,5-Trimethylbenzene	NC,WVDEP
1,3-Dichlorobenzene	NC,VELAP,WVDEP
1,3-Dichloropropane	NC,VELAP,WVDEP
1,4-Dichlorobenzene	NC,VELAP,WVDEP
2,2-Dichloropropane	NC,VELAP,WVDEP
2-Butanone (MEK)	NC,VELAP,WVDEP

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Certified Analyses included in this Report

Analyte	Certifications
2-Chlorotoluene	NC, VELAP, WVDEP
2-Hexanone (MBK)	NC, VELAP, WVDEP
4-Chlorotoluene	NC, VELAP, WVDEP
4-Isopropyltoluene	NC, VELAP, WVDEP
4-Methyl-2-pentanone (MIBK)	NC, VELAP, WVDEP
Acetone	NC, VELAP, WVDEP
Benzene	NC, VELAP, WVDEP
Bromobenzene	NC, VELAP, WVDEP
Bromochloromethane	NC, VELAP, WVDEP
Bromodichloromethane	NC, VELAP, WVDEP
Bromoform	NC, VELAP, WVDEP
Bromomethane	NC, VELAP, WVDEP
Carbon disulfide	NC, VELAP, WVDEP
Carbon tetrachloride	NC, VELAP, WVDEP
Chlorobenzene	NC, VELAP, WVDEP
Chloroethane	NC, VELAP, WVDEP
Chloroform	NC, VELAP, WVDEP
Chloromethane	NC, VELAP, WVDEP
cis-1,2-Dichloroethylene	NC, VELAP, WVDEP
cis-1,3-Dichloropropene	NC, VELAP, WVDEP
Dibromochloromethane	NC, VELAP, WVDEP
Dibromomethane	NC, VELAP, WVDEP
Dichlorodifluoromethane	NC, VELAP, WVDEP
Di-isopropyl ether (DIPE)	NC, VELAP, WVDEP
Ethylbenzene	NC, VELAP, WVDEP
Hexachlorobutadiene	NC, VELAP, WVDEP
Iodomethane	NC, VELAP, WVDEP
Isopropylbenzene	NC, VELAP, WVDEP

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Analyte	Certifications
m+p-Xylenes	NC,VELAP,WVDEP
Methylene chloride	NC,VELAP,WVDEP
Methyl-t-butyl ether (MTBE)	NC,VELAP,WVDEP
Naphthalene	NC,VELAP,WVDEP
n-Butylbenzene	NC,VELAP,WVDEP
n-Propylbenzene	NC,VELAP,WVDEP
o-Xylene	NC,VELAP,WVDEP
sec-Butylbenzene	NC,VELAP,WVDEP
Styrene	NC,VELAP,WVDEP
tert-Butylbenzene	NC,VELAP,WVDEP
Tetrachloroethylene (PCE)	NC,VELAP,WVDEP
Toluene	NC,VELAP,WVDEP
trans-1,2-Dichloroethylene	NC,VELAP,WVDEP
trans-1,3-Dichloropropene	NC,VELAP,WVDEP
Trichloroethylene	NC,VELAP,WVDEP
Trichlorofluoromethane	NC,VELAP,WVDEP
Vinyl acetate	NC,VELAP,WVDEP
Vinyl chloride	NC,VELAP,WVDEP
Xylenes, Total	NC,VELAP,WVDEP

SW8270D in Non-Potable Water

1,2,4,5-Tetrachlorobenzene	VELAP,WVDEP,NC
1,2,4-Trichlorobenzene	VELAP,WVDEP,NC
1,2-Dichlorobenzene	VELAP,WVDEP,NC
1,2-Diphenylhydrazine	VELAP,WVDEP,NC
1,3-Dichlorobenzene	VELAP,WVDEP,NC
1,3-Dinitrobenzene	VELAP,WVDEP,NC
1,4-Dichlorobenzene	VELAP,WVDEP,NC
1-Naphthylamine	VELAP,WVDEP,NC

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Certified Analyses included in this Report

Analyte	Certifications
2,3,4,6-Tetrachlorophenol	VELAP,WVDEP,NC
2,4,5-Trichlorophenol	VELAP,WVDEP,NC
2,4,6-Trichlorophenol	VELAP,WVDEP,NC
2,4-Dichlorophenol	VELAP,WVDEP,NC
2,4-Dimethylphenol	VELAP,WVDEP,NC
2,4-Dinitrophenol	VELAP,WVDEP,NC
2,4-Dinitrotoluene	VELAP,WVDEP,NC
2,6-Dichlorophenol	VELAP,WVDEP,NC
2,6-Dinitrotoluene	VELAP,WVDEP,NC
2-Chloronaphthalene	VELAP,WVDEP,NC
2-Chlorophenol	VELAP,WVDEP,NC
2-Methylnaphthalene	VELAP,WVDEP,NC
2-Naphthylamine	VELAP,WVDEP,NC
2-Nitroaniline	VELAP,WVDEP,NC
2-Nitrophenol	VELAP,WVDEP,NC
3,3'-Dichlorobenzidine	VELAP,WVDEP,NC
3-Methylcholanthrene	VELAP,WVDEP,NC
3-Nitroaniline	VELAP,WVDEP,NC
4,6-Dinitro-2-methylphenol	VELAP,WVDEP,NC
4-Aminobiphenyl	VELAP,WVDEP,NC
4-Bromophenyl phenyl ether	VELAP,WVDEP,NC
4-Chloroaniline	VELAP,WVDEP,NC
4-Chlorophenyl phenyl ether	VELAP,WVDEP,NC
4-Nitroaniline	VELAP,WVDEP,NC
4-Nitrophenol	VELAP,WVDEP,NC
7,12-Dimethylbenz (a) anthracene	VELAP,WVDEP,NC
Acenaphthene	VELAP,WVDEP,NC
Acenaphthylene	VELAP,WVDEP,NC

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Certified Analyses included in this Report

Analyte	Certifications
Acetophenone	VELAP,WVDEP,NC
Aniline	VELAP,WVDEP,NC
Anthracene	VELAP,WVDEP,NC
Benzidine	VELAP,WVDEP,NC
Benzo (a) anthracene	VELAP,WVDEP,NC
Benzo (a) pyrene	VELAP,WVDEP,NC
Benzo (b) fluoranthene	VELAP,WVDEP,NC
Benzo (g,h,i) perylene	VELAP,WVDEP,NC
Benzo (k) fluoranthene	VELAP,WVDEP,NC
Benzoic acid	VELAP,WVDEP,NC
Benzyl alcohol	VELAP,WVDEP,NC
bis (2-Chloroethoxy) methane	VELAP,WVDEP,NC
bis (2-Chloroethyl) ether	VELAP,WVDEP,NC
2,2'-Oxybis (1-chloropropane)	VELAP,WVDEP,NC
bis (2-Ethylhexyl) phthalate	VELAP,WVDEP,NC
Butyl benzyl phthalate	VELAP,WVDEP,NC
Chrysene	VELAP,WVDEP,NC
Dibenz (a,h) anthracene	VELAP,WVDEP,NC
Dibenz (a,j) acridine	VELAP,WVDEP,NC
Dibenzofuran	VELAP,WVDEP,NC
Diethyl phthalate	VELAP,WVDEP,NC
Dimethyl phthalate	VELAP,WVDEP,NC
Di-n-butyl phthalate	VELAP,WVDEP,NC
Di-n-octyl phthalate	VELAP,WVDEP,NC
Diphenylamine	VELAP,WVDEP,NC
Ethyl methanesulfonate	VELAP,WVDEP,NC
Fluoranthene	VELAP,WVDEP,NC
Fluorene	VELAP,WVDEP,NC

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Analyte	Certifications
Hexachlorobenzene	VELAP,WVDEP,NC
Hexachlorobutadiene	VELAP,WVDEP,NC
Hexachlorocyclopentadiene	VELAP,WVDEP,NC
Hexachloroethane	VELAP,WVDEP,NC
Indeno (1,2,3-cd) pyrene	VELAP,WVDEP,NC
Isophorone	VELAP,WVDEP,NC
m+p-Cresols	VELAP,WVDEP,NC
Methyl methanesulfonate	VELAP,WVDEP,NC
Naphthalene	VELAP,WVDEP,NC
Nitrobenzene	VELAP,WVDEP,NC
n-Nitrosodimethylamine	VELAP,WVDEP,NC
n-Nitrosodi-n-butylamine	VELAP,WVDEP,NC
n-Nitrosodi-n-propylamine	VELAP,WVDEP,NC
n-Nitrosodiphenylamine	VELAP,WVDEP,NC
n-Nitrosopiperidine	VELAP,WVDEP,NC
o+m+p-Cresols	WVDEP,NC
o-Cresol	VELAP,WVDEP,NC
p-(Dimethylamino) azobenzene	VELAP,WVDEP,NC
p-Chloro-m-cresol	VELAP,WVDEP,NC
Pentachloronitrobenzene (quintozene)	VELAP,WVDEP,NC
Pentachlorophenol	VELAP,WVDEP,NC
Phenacetin	VELAP,WVDEP,NC
Phenanthrene	VELAP,WVDEP,NC
Phenol	VELAP,WVDEP,NC
Pronamide	VELAP,WVDEP,NC
Pyrene	VELAP,WVDEP,NC
Pyridine	VELAP,WVDEP,NC

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Code	Description	Cert Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2017
NC	North Carolina DENR	495	12/31/2017
VELAP Certificate #4337	NELAC-Virginia Certificate #9475	460021	06/14/2018
WVDEP	West Virginia DEP	350	11/30/2017

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Qualifiers and Definitions

C	Continuing calibration verification response for this analyte is outside specifications.
J	The reported result is an estimated value.
M	Matrix spike recovery is outside established acceptance limits
P	Duplicate analysis does not meet the acceptance criteria for precision
S	Surrogate recovery was outside acceptance criteria
RPD	Relative Percent Difference
Qual	Qualifiers
-RE	Denotes sample was re-analyzed
LOD	Limit of Detection
BLOD	Below Limit of Detection
LOQ	Limit of Quantitation
DF	Dilution Factor
TIC	Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.
PCBs, Total	Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

Certificate of Analysis

Client Name: Timmons Group
 Client Site I.D.: E. Main St Parcels
 Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

Sample Conditions Checklist

Samples Received at:	0.10°C
How were samples received?	AWS Courier
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	No
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	Yes
Are all volatile organic and TOX containers free of headspace?	Yes
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	Yes
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

Certificate of Analysis

Client Name: Timmons Group
Client Site I.D.: E. Main St Parcels
Submitted To: John Russell

Date Issued: 11/29/2017 10:58:32AM

As per Julia Campus sample "MW-29" is to be run for Hg and CrVI and proceed with a 5 day TAT for all samples.
BAR 11/17/17 1358

Trip Blank received with samples and added to work order.

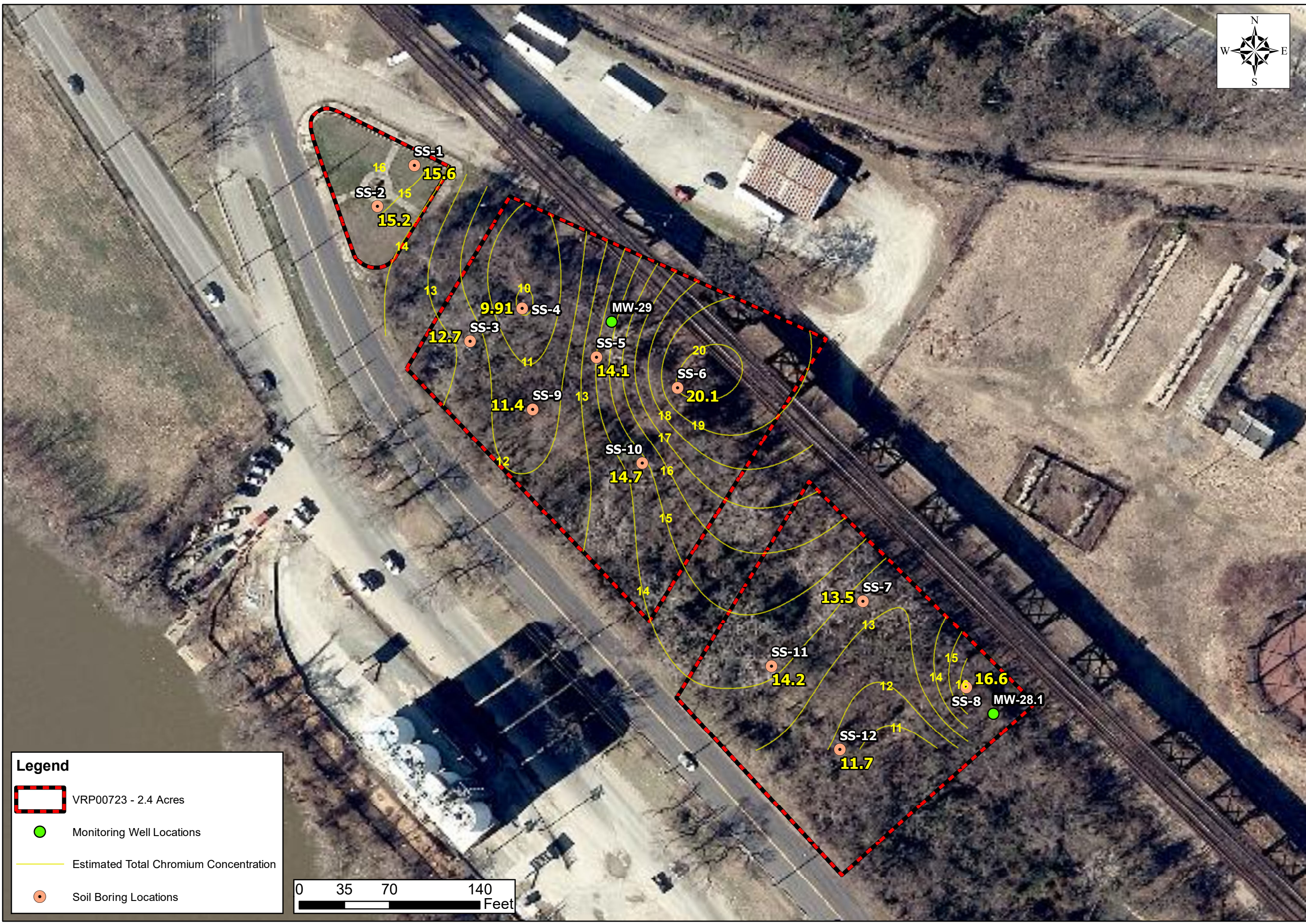
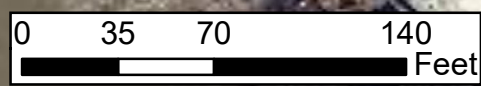
Trip Blank date and time (11/8/17 1300) logged as per container lables. BAR
11/17/17 1414

APPENDIX I
CONTAMINANT ISOCONTOUR MAPS



Legend

- VRP00723 - 2.4 Acres
- Monitoring Well Locations
- Estimated Total Chromium Concentration
- Soil Boring Locations



TIMMONS GROUP

EAST MAIN STREET PARCELS
CITY OF RICHMOND, VIRGINIA

TOTAL CHROMIUM CONCENTRATIONS - SOIL (MG/KG)

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TEL 804.200.6500 FAX 804.560.7648 www.timmons.com

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DATE	REVISION DESCRIPTION

DATE
02/01/2018
DRAWN BY
A. WILSON
DESIGNED BY
A. WILSON
CHECKED BY
J. RUSSELL
SCALE
1" = 70'

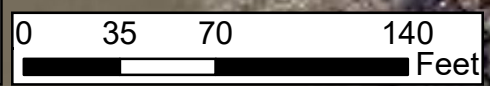
JOB NUMBER
38393
SHEET NO.
1 OF 1

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Legend

- VRP00723 - 2.4 Acres
- Monitoring Well Locations
- Estimated Iron Concentration
- Soil Boring Locations



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EAST MAIN STREET PARCELS
CITY OF RICHMOND, VIRGINIA
IRON CONCENTRATIONS - SOIL (MG/KG)

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DATE	REVISION DESCRIPTION
02/01/2018	

DRAWN BY
A. WILSON

DESIGNED BY
A. WILSON

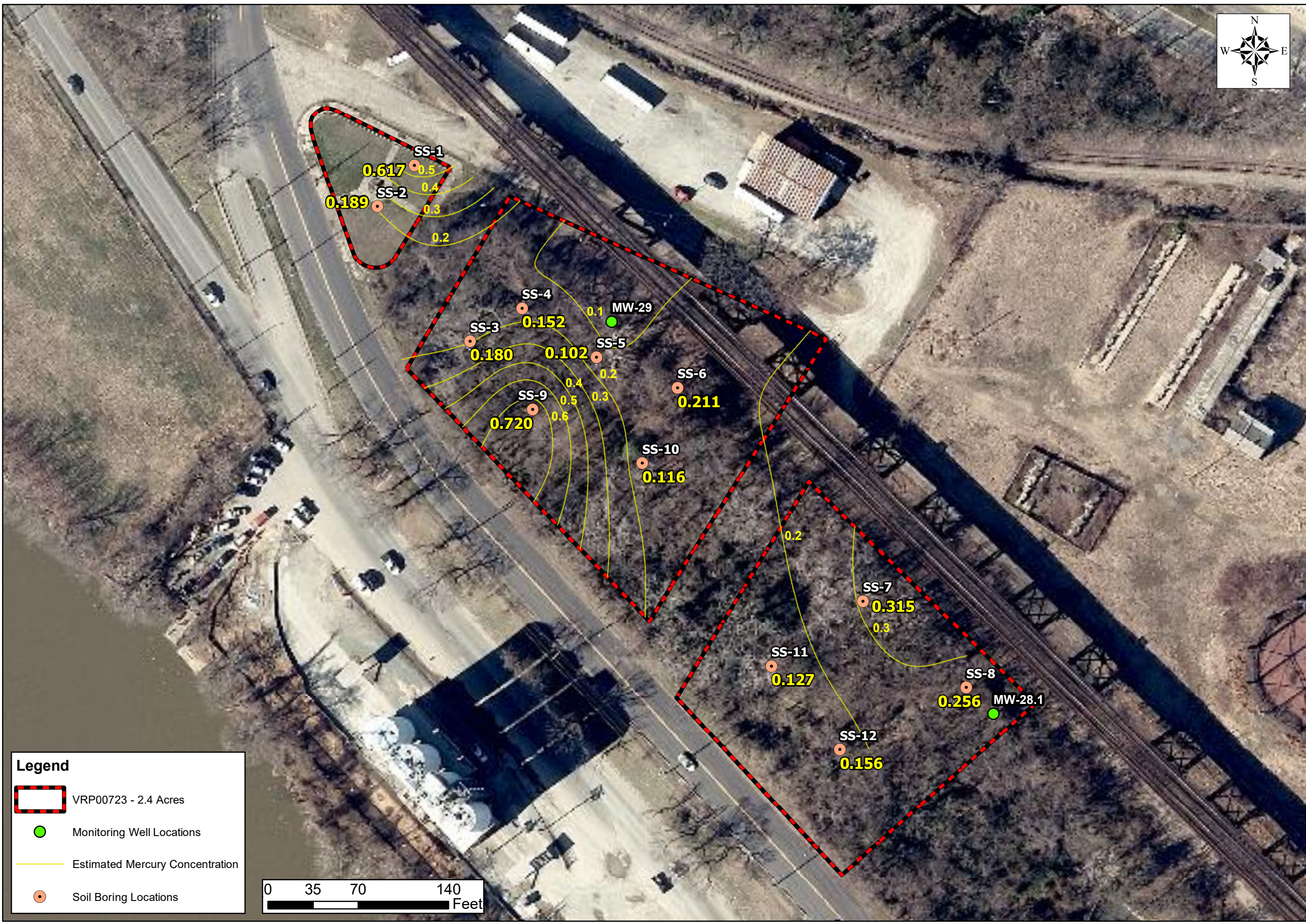
CHECKED BY
J. RUSSELL

SCALE
1" = 70'

JOB NUMBER
38393

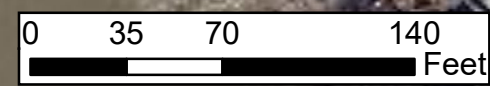
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Legend

- VRP00723 - 2.4 Acres
- Monitoring Well Locations
- Estimated Mercury Concentration
- Soil Boring Locations



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EAST MAIN STREET PARCELS
CITY OF RICHMOND, VIRGINIA

MERCURY CONCENTRATIONS - SOIL (MG/KG)

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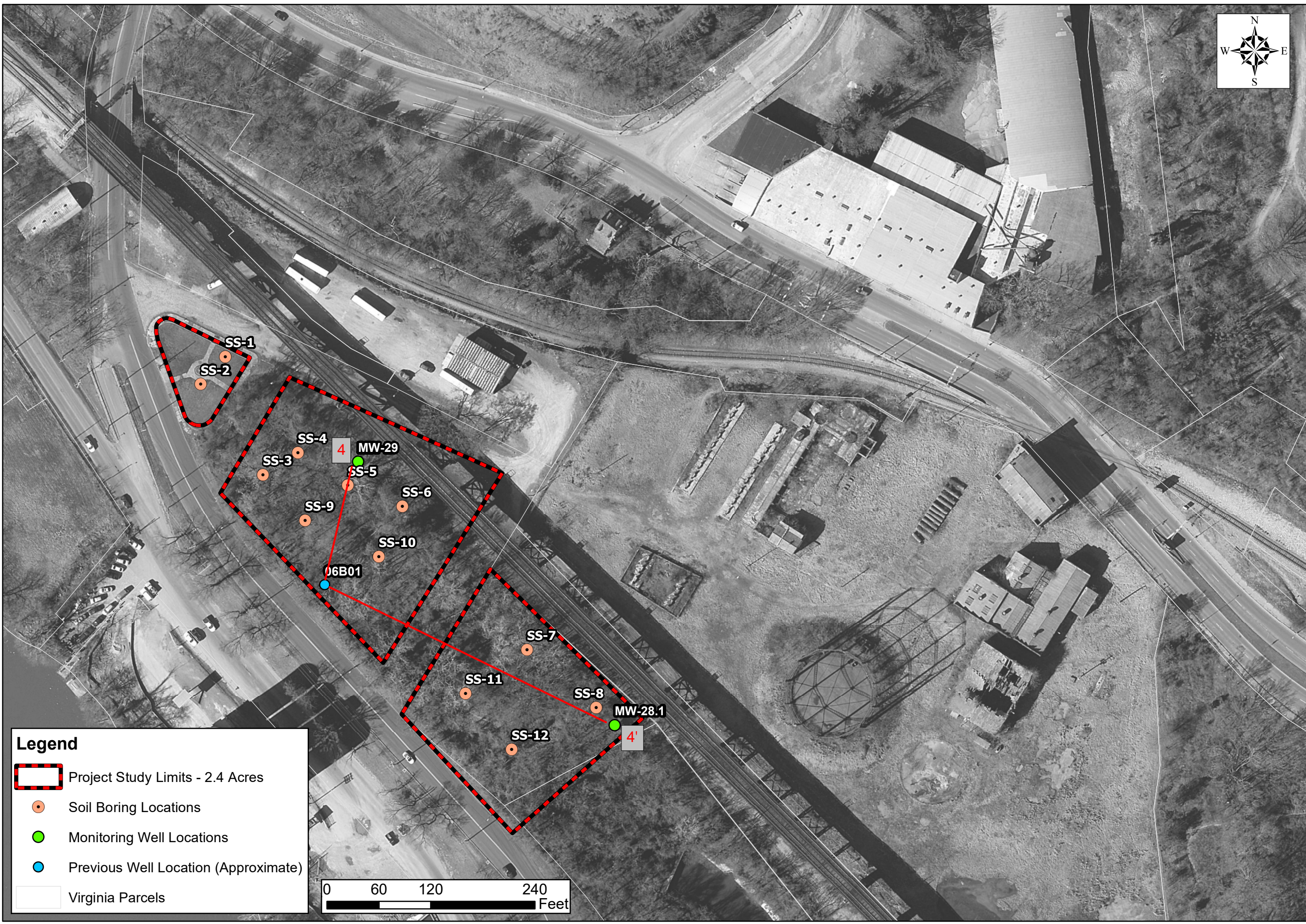
YOUR VISION ACHIEVED THROUGH OURS	REVISION DESCRIPTION
Site Development Residential Infrastructure Technology Environmental	
DATE	
DATE	02/01/2018
DRAWN BY	A. WILSON
DESIGNED BY	A. WILSON
CHECKED BY	J. RUSSELL
SCALE	1" = 70'

JOB NUMBER
38393

SHEET NO.
1 OF 1

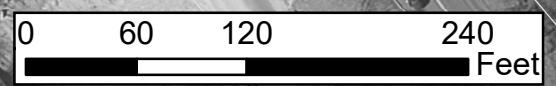
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APPENDIX J
GEOLOGIC CROSS SECTION



Legend

- Project Study Limits - 2.4 Acres
- Soil Boring Locations
- Monitoring Well Locations
- Previous Well Location (Approximate)
- Virginia Parcels



TIMMONS GROUP

FULTON GAS WORKS (E. MAIN ST PARCELS)

CITY OF RICHMOND, VIRGINIA

CROSS SECTION KEY

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02/02/2018	

DATE
02/02/2018

DRAWN BY
A. WILSON

DESIGNED BY
L. MAJOR

CHECKED BY
J. RUSSELL

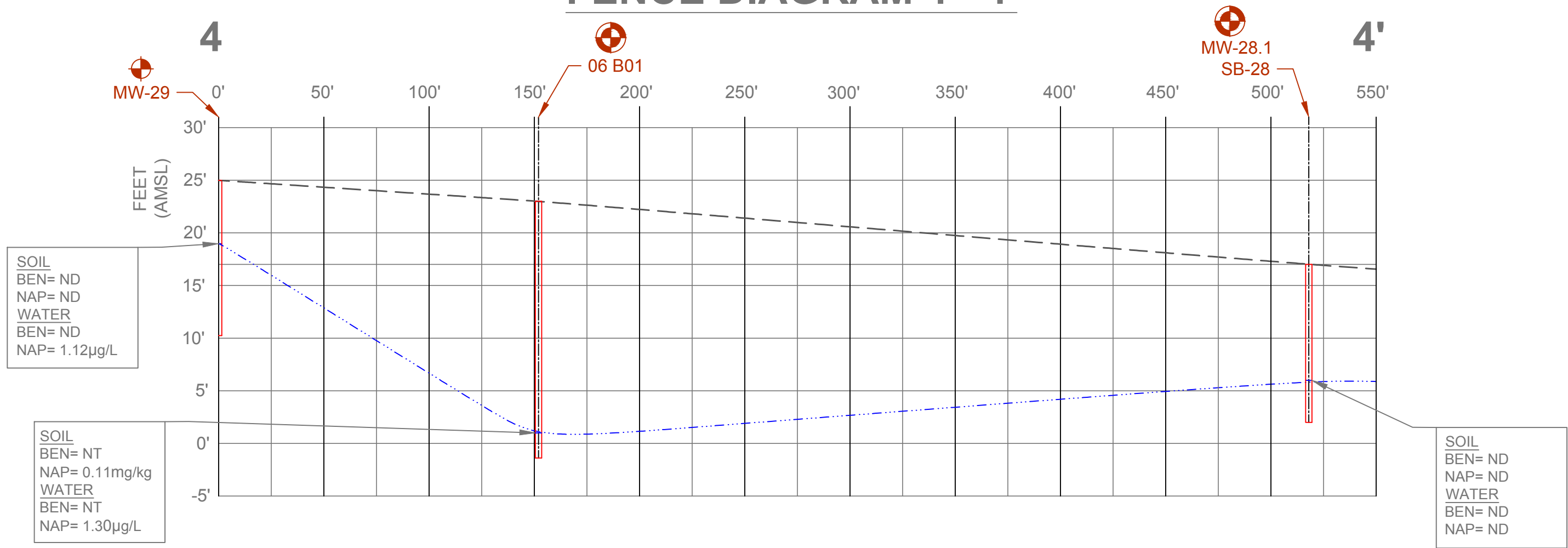
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JOB NUMBER
38393

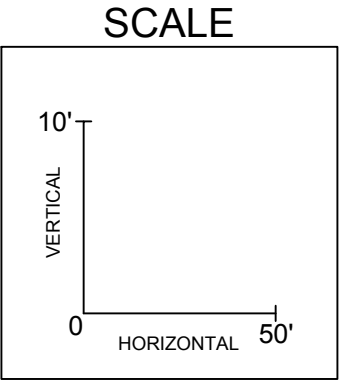
SHEET NO.
1 OF 1

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FENCE DIAGRAM 4 - 4'



	MONITORING WELL	BEN - BENZENE
	MONITORING WELL - SOIL BORING	NAP - NAPHTHALENE
	GROUND SURFACE	ND - NOT DETECTED
	GROUNDWATER	NT - NOT TESTED
		mg/kg - MILLIGRAM/KILOGRAM
		µg/L - MICROGRAM/LITER



APPENDIX K
VRP TABLES 3.1A AND 3.1B

East Main Street Parcels
Table 3.1a Selection of Exposure Pathways -- Onsite

Medium	Exposure Medium	Receptor Population	Receptor Age	Exposure Route	Rationale for Selection or Exclusion of Exposure Pathway	
Groundwater	Groundwater	Resident	Adult	Dermal	No use of groundwater within City of Richmond	
				Ingestion	No use of groundwater within City of Richmond	
			Child	Dermal	No use of groundwater within City of Richmond	
				Ingestion	No use of groundwater within City of Richmond	
			Shower Air	Adult	Inhalation	No use of groundwater within City of Richmond
			Building Air	Adult	Inhalation	Possible pathway; exposure risk calculated
	Child	Inhalation		Possible pathway; exposure risk calculated		
	Groundwater	Construction Worker	Adult	Dermal	Accidental pathway possible; exposure risk calculated	
				Ingestion	Accidental pathway possible; exposure risk calculated	
				Inhalation	Possible pathway; exposure risk calculated	
	Air			Inhalation	Possible pathway; exposure risk calculated	
	Groundwater	Commercial/Industrial	Adult	Dermal	No use of groundwater within City of Richmond	
Ingestion				No use of groundwater within City of Richmond		
Inhalation				Possible pathway; exposure risk calculated		
Building Air			Inhalation	Possible pathway; exposure risk calculated		
Surface Water	Surface Water	Recreational/Trespasser	Adult	Dermal	No surface water onsite	
				Ingestion	No surface water onsite	
			Child	Dermal	No surface water onsite	
				Ingestion	No surface water onsite	
	Aquatic Organisms		Adult	Ingestion	No surface water onsite	
			Child	Ingestion	No surface water onsite	
Soil	Soil	Resident	Adult	Dermal	Possible pathway; exposure risk calculated	
				Ingestion	Possible pathway; exposure risk calculated	
			Child	Dermal	Possible pathway; exposure risk calculated	
				Ingestion	Possible pathway; exposure risk calculated	
	Air		Adult	Inhalation	Possible pathway; exposure risk calculated	
			Child	Inhalation	Possible pathway; exposure risk calculated	
	Soil		Trespasser/Visitor	Adult	Dermal	Possible pathway; exposure risk calculated
					Ingestion	Possible pathway; exposure risk calculated
		Child		Dermal	Possible pathway; exposure risk calculated	
				Ingestion	Possible pathway; exposure risk calculated	
	Air	Adult		Inhalation	Possible pathway; exposure risk calculated	
		Child		Inhalation	Possible pathway; exposure risk calculated	
	Soil	Construction Worker		Adult	Dermal	Possible pathway; exposure risk calculated
					Ingestion	Possible pathway; exposure risk calculated
	Air		Inhalation		Possible pathway; exposure risk calculated	
			Inhalation		Possible pathway; exposure risk calculated	
Soil	Commercial/Industrial	Adult	Dermal	Possible pathway; exposure risk calculated		
			Ingestion	Possible pathway; exposure risk calculated		
			Air	Inhalation	Possible pathway; exposure risk calculated	
Inhalation				Possible pathway; exposure risk calculated		
Inhalation				Possible pathway; exposure risk calculated		
Sediment			Sediment	Recreational/Trespasser	Adult	Dermal
	Ingestion	No sediments onsite				
	Child	Dermal			No sediments onsite	
		Ingestion			No sediments onsite	
	Aquatic Organisms	Adult	Ingestion		No sediments onsite	
		Child	Ingestion		No sediments onsite	

East Main Street Parcels
Table 3.1b Selection of Exposure Pathways -- Offsite

Medium	Exposure Medium	Receptor Population	Receptor Age	Exposure Route	Rationale for Selection or Exclusion of Exposure Pathway	
Groundwater	Groundwater	Resident	Adult	Dermal	No use of groundwater within City of Richmond	
				Ingestion	No use of groundwater within City of Richmond	
			Child	Dermal	No use of groundwater within City of Richmond	
				Ingestion	No use of groundwater within City of Richmond	
			Shower Air	Adult	Inhalation	No use of groundwater within City of Richmond
				Adult	Inhalation	No use of groundwater within City of Richmond
	Building Air	Adult	Inhalation	No use of groundwater within City of Richmond		
		Child	Inhalation	No use of groundwater within City of Richmond		
	Groundwater	Air	Construction Worker	Adult	Dermal	Accidental pathway possible; exposure risk calculated
					Ingestion	Accidental pathway possible; exposure risk calculated
					Inhalation	Possible pathway; exposure risk calculated
	Groundwater	Building Air	Commercial/Industrial	Adult	Dermal	No use of groundwater within City of Richmond
Ingestion					No use of groundwater within City of Richmond	
Inhalation					Possible pathway; exposure risk calculated	
Surface Water	Surface Water	Recreational/Trespasser	Adult	Dermal	Recreation in surface water possible, exposure pathway calculated	
				Ingestion	Recreation in surface water possible, exposure pathway calculated	
			Child	Dermal	Recreation in surface water possible, exposure pathway calculated	
				Ingestion	Recreation in surface water possible, exposure pathway calculated	
	Aquatic Organisms		Adult	Ingestion	Ingestion via aquatic organisms not probable but possible; exposure pathway calculated	
			Child	Ingestion	Ingestion via aquatic organisms not probable but possible; exposure pathway calculated	
Soil	Soil	Resident	Adult	Dermal	Possible pathway; exposure risk calculated	
				Ingestion	Possible pathway; exposure risk calculated	
			Child	Dermal	Possible pathway; exposure risk calculated	
				Ingestion	Possible pathway; exposure risk calculated	
	Air	Resident	Adult	Inhalation	Possible pathway; exposure risk calculated	
			Child	Inhalation	Possible pathway; exposure risk calculated	
			Adult	Dermal	Possible pathway; exposure risk calculated	
				Ingestion	Possible pathway; exposure risk calculated	
	Soil	Trespasser/Visitor	Adult	Dermal	Possible pathway; exposure risk calculated	
				Ingestion	Possible pathway; exposure risk calculated	
			Child	Dermal	Possible pathway; exposure risk calculated	
				Ingestion	Possible pathway; exposure risk calculated	
	Air	Trespasser/Visitor	Adult	Inhalation	Possible pathway; exposure risk calculated	
			Child	Inhalation	Possible pathway; exposure risk calculated	
			Adult	Dermal	Possible pathway; exposure risk calculated	
				Ingestion	Possible pathway; exposure risk calculated	
Soil	Construction Worker	Adult	Dermal	Possible pathway; exposure risk calculated		
			Ingestion	Possible pathway; exposure risk calculated		
			Inhalation	Possible pathway; exposure risk calculated		
			Inhalation	Possible pathway; exposure risk calculated		
Soil	Commercial/Industrial	Adult	Dermal	Possible pathway; exposure risk calculated		
			Ingestion	Possible pathway; exposure risk calculated		
			Inhalation	Possible pathway; exposure risk calculated		
			Inhalation	Possible pathway; exposure risk calculated		
Sediment	Sediment	Recreational/Trespasser	Adult	Dermal	Possible pathway; exposure risk calculated	
				Ingestion	Possible pathway; exposure risk calculated	
			Child	Dermal	Possible pathway; exposure risk calculated	
				Ingestion	Possible pathway; exposure risk calculated	
	Aquatic Organisms		Adult	Ingestion	Possible pathway; exposure risk calculated	
			Child	Ingestion	Possible pathway; exposure risk calculated	