

# Remedial Investigation/ Alternatives Analysis (RI/AA) Report

Former Trico Plant  
BCP Site No. C915281  
Buffalo, New York

January 2017

0092-016-001

Prepared For: The Krog Group, LLC  
and  
791 Washington Street, LLC

Prepared By:



In Association With:



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# REMEDIAL INVESTIGATION/ ALTERNATIVES ANALYSIS REPORT

FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK

BCP SITE NUMBER C915281

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Prepared for:  
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# REMEDIAL INVESTIGATION/ALTERNATIVE ANALYSIS REPORT

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Buffalo, New York

## Certification

I, *Thomas H. Forbes*, certify that I am currently a NYS registered Professional Engineer and that this January 2017 Remedial Investigation/Alternatives Analysis (RI/AA) Report for the Former Trico Plant Site (C915281), located at 791 Washington Street, Buffalo, New York was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

SEAL



Date

1-17-17



## 1.0 INTRODUCTION

Benchmark Environmental Engineering & Science, PLLC (Benchmark) in association with TurnKey Environmental Restoration, LLC (TurnKey) has prepared this Remedial Investigation/Alternatives Analysis (RI/AA) Report on behalf of The Krog Group, LLC, for the Former Trico Plan property (Site) located at 791 Washington Street in the City of Buffalo, New York (see Figures 1 and 2).

The Remedial Investigation (RI) work was completed under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) and executed Brownfield Cleanup Agreement (BCA, Index # C915281-10-13) dated October 24, 2013 between the NYSDEC and 847 Main Street, LLC, an entity related to the Krog Group, LLC. At the time of the RI, the Site was owned by the Buffalo Brownfield Restoration Corporation.

The RI activities discussed in this report were completed by Benchmark-TurnKey under an approved NYSDEC RI/AA Work Plan (Ref. 1), which was approved on October 30, 2013 and to address NYSDEC comments received in a letter dated October 26, 2016 on the draft RI/AA Report that was submitted July 2016. The initial RI activities were completed between May and June 2016 with supplemental investigation activities being completed in November and December 2016.

Interpretations presented within this report are based on historic investigations (see Section 1.2) completed by Benchmark-TurnKey and others prior to the Site entering into the BCP and subsequent to RI activities. The analytical data generated as part of the previous Limited Subsurface Investigation has been included within this report and compared to the current applicable cleanup regulations.

### 1.1 Site Background

The Site consists of a single parcel totaling approximately 2.11 acres, located at 791 Washington Street in the City of Buffalo, Erie County, New York. The property is currently developed with a complex of five adjoining buildings totaling 617,627 square feet. The oldest of the five buildings was constructed circa 1890 as a portion of the Christian Weyand Brewery that operated at the Site until the enactment of prohibition. The building was purchased in 1920 by the Trico Products Corporation for the manufacturing of windshield wiper blades for the automobile industry. The remaining buildings were constructed from

1920 to 1954. The Trico Products Corporation operated at the Site until approximately 1993. The building complex is currently vacant and has been idle since at least 2000.

Historic operations included electroplating, smelting, die-casting, rubber extrusion, and metal fabrication. Additionally, a degreaser was identified by a former Trico building manager to be located in the northeast corner of the building on the 6<sup>th</sup> floor (Ref 9). A copy of this report was provided to the NYSDEC with the BCP application for the Former Trico Plant Site. Five (5) wipe samples were collected from in the vicinity of the former degreaser and the results did not indicate the presence of chlorinated volatile organic compounds (cVOCs). The RI activities discussed in Section 2.0 were completed in the basement (lowest level of the building), including below where the degreaser was reportedly located.

Figure 3 provides the building layout for the basement and first floor.

## 1.2 Historic Investigation Report

Benchmark-TurnKey completed a Limited Subsurface Investigation at the Site in 2013. The soil/fill sample results are summarized on Table 3A and Figure 5 shows the approximate locations of the investigation locations. The soil description and field observations are included in Appendix B with the RI soil boring and monitoring well logs. Findings of that report include:

- Oil staining was noted in numerous areas of the basement and first floor of the building.
- Open buckets/containers of oil were noted in multiple areas of the basement.
- Six in-ground lifts were noted in the western loading dock area of the building and oil-staining was noted surrounding the lifts. Apparent oil was observed within the void space exposed between two layers of the first floor concrete foundation in the soil boring identified as SB-1, proximate to the in-ground lifts. These lifts will require removal prior to site redevelopment.
- The sub-basement was filled with water at the time of the investigation; historic reports identified approximately 144,000 gallons water present in the sub-basement of the complex.
- Elevated concentrations of polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), and metals have been detected in sub-slab soil samples collected from beneath the building first floor and basement foundations. Based on these findings and field observations, compounds used in association with

historical industrial manufacturing activities at the Site have likely permeated the concrete building foundations and impacted Site soil.

### 1.3 Report Organization

This RI/AA Report contains the following sections:

- Section 1.0 provides an introduction to the project, Site background, and previous investigation information.
- Section 2.0 presents the investigation approach.
- Section 3.0 describes the Site physical characteristics as they pertain to the investigation findings.
- Section 4.0 presents the investigation results.
- Section 5.0 describes the fate and transport of the COCs.
- Section 6.0 presents the qualitative exposure assessment.
- Section 7.0 evaluates remedial alternatives for the Site.
- Section 8.0 presents the post-remedial requirements.
- Section 9.0 provides a list of references for this report.

## 2.0 INVESTIGATION APPROACH

The Remedial Investigation (RI) scope of work focused on further defining the nature and extent of contamination, identifying the source of contamination, defining chemical constituent migration pathways, qualitatively assessing human health and ecological risks (if necessary), and obtaining data of sufficient quantity and quality to perform the remedial alternatives evaluation in accordance with NYSDEC DER-10 (Ref. 2).

The RI was performed to supplement previous investigation data and to better characterize subsurface soil/fill materials, groundwater, soil vapor, and overburden stratigraphy within the Site boundaries. The RI tasks performed in accordance with the RI/AA Work Plan and subsequent additional investigations to address NYSDEC comments received in a letter dated October 26, 2016 consisted of the following:

- Completion of 31 interior soil borings within the footprint of the existing Site buildings to facilitate subsurface soil/fill sampling and to assess site stratigraphy. The soil borings were completed in accessible areas of the buildings.
- Completion of three exterior soil borings north of the building in former Burton Street to facilitate subsurface soil/fill sampling and to assess site stratigraphy. The soil borings were completed in accessible areas of the street, but access was limited due to underground utilities.
- Installation of one exterior and nine interior on-site monitoring wells at soil boring locations to facilitate groundwater sampling, assess site hydrogeology, and assess for contamination.
- Installation of two exterior off-site “deep” monitoring wells at soil boring locations to facilitate groundwater sampling and assess for off-site contamination.
- Site observations were made to locate on-site utilities and sewer services. Where accessible, structures were opened and inspected for the presence of standing water or solid contents and visual and/or olfactory indications of contamination.
- Completion of a soil vapor intrusion assessment inside the building that consisted of seven sub-slab samples, two indoor ambient air samples, and one outdoor air sample.
- Collection of one water sample from the water-filled sub-basement of the boiler room.
- Submittal of 26 subsurface soil/fill samples (excluding QA/QC) for analytical testing to better characterize the Site overburden chemistry.

- Submittal of 15 groundwater samples (excluding QA/QC) for analytical testing to better characterize the Site overburden groundwater chemistry.
- Submittal of three samples of the solid contents from three structures present within the former truck repair area.
- Groundwater level gauging and hydraulic conductivity testing were completed to further assess flow directions Site hydrogeologic conditions.
- Site-specific Quality Assurance/Quality Control (QA/QC) samples were collected to assist in evaluating the usability of the data in accordance with the RI/AA Work Plan.

Field team personnel collected environmental samples (i.e., subsurface soil, vapor/air samples, water, and groundwater) in accordance with the rationale and protocols described in the Sampling and Analysis Plan (SAP) of the Quality Assurance Project Plan (QAPP, Section 4.0 of the RI/AA Work Plan). Representative environmental samples were collected during the RI using dedicated sampling devices and were placed in pre-cleaned laboratory provided sample containers, cooled to 4°C in the field (if necessary), and transported under chain-of-custody command to the laboratories. TestAmerica Laboratories (TestAmerica), located in Williamsville, New York was utilized during the initial RI activities and Alpha Analytical (Alpha) located in Westborough, Massachusetts was used during the subsequent investigation activities. Both laboratories are New York State Department of Health (NYSDOH) ELAP-certified.

Samples for chemical analysis were analyzed in accordance with USEPA SW-846 methodologies to meet the definitive-level data requirements. A Category B deliverable package was provided for each sample delivery group to allow independent third-party data validation and provide defensible data. Analytical results were evaluated by a third-party data validation expert in accordance with provisions described in the QAPP. The scope of work completed for this RI was performed between May and December 2016 as described below.

## 2.1 Remedial Investigation Field Activities

### *2.1.1 Utility/Sewer Inspection and Sampling*

A Site inspection was performed to locate on-site utility and sewer services. Where feasible, the structures were opened and inspected for the presence of standing water or sediment, and visual and/or olfactory indications of contamination. Photoionization

detector (PID) measurements were also recorded at the top of each structure. The locations of the utility and sewer structures are shown on Figure 4. The results of the inspection are tabulated in Appendix A and discussed in Section 4.2.

The solid contents of the six structures present in the former truck repair area were placed in a sealable plastic bag, if present, for field headspace screening with a PID. Three structures were sampled for VOC analysis based on the highest PID measurements during the subsequent investigation activities, as requested by NYSDEC.

### ***2.1.2 Sub-basement Water Sampling***

An inspection of the sub-basement was performed to confirm previous observations of standing water in the sub-basement. Standing water was observed at the top of the stairwell into the sub-basement (ceiling of the sub-basement) preventing access. Due to the elevation of the water within the sub-basement, observation could not be made within the sub-basement and a water sample was collected as outlined in the RI/AA Work Plan. The sub-basement water sample location is shown on Figure 5 and discussed in Section 4.5.

### ***2.1.3 Soil/Fill Investigation***

The initial subsurface soil/fill investigation was completed in June 2016 at select locations across the Site to assess whether additional impacts exist beyond the limits of known historical contamination. Based on the initial RI activities, a subsequent soil/fill investigation requested by NYSDEC was completed in November 2016 within the former truck repair area of the basement.

#### ***2.1.3.1 Soil Boring Investigation***

A subsurface soil/fill investigation was completed to supplement the previous environmental data collected, collect soil/fill samples, and assess the conditions beneath the existing Site building and limited exterior portion of the Site. A total of 36 soil borings were advanced into the subsurface. Thirty-one locations were completed in accessible areas beneath the existing Site building through holes cored through the concrete slab. Five locations were completed in accessible exterior locations. These soil borings were designated RISB-12 through RISB-35. Twelve of the soil boring locations were completed as monitoring wells RIMW-1 through RIMW-12, as discussed in Section 2.1.4. Figure 5 shows the locations of the RI soil boring as well as previously completed soil borings SB-1 through SB-11.

The RI soil borings were completed in accessible portions of the building interior and exterior, as follows.

- RISB-12 through RISB-14 and RIMW-2 were completed in the former loading dock in the vicinity of the in-place hydraulic lifts.
- RISB-15, RISB-16 and RIMW-1 were completed on the exterior of the Site in the former Burton Street on the north side of the Site.
- RISB-19 through RISB-22 and RIMW-3 were completed in the former oil storage area in the northwestern portion of the building.
- RIMW-10 was completed in the former tool and dye storage area in the northeastern portion of the building.
- RISB-17, RISB-18, RIMW-9, and RISB-27 through RISB-35 were completed in the former truck repair area of the building in the eastern-central portion of the building.
- RIMW-7, RISB-25 and RISB-26 was completed in the central portion of the Site building in the vicinity of a former plastics molding area.
- RIMW-8 was completed in the former plastics molding and machine shop area in the southeastern portion of the Site building.
- RIMW-6 was completed in the southern central portion of the Site building.
- RISB-23, RISB-24, RIMW-4, and RIMW-5 were completed in the former machine shop area in the southwestern portion of the building.
- RIMW-11 was completed off-site in the sidewalk east of the eastern property boundary in vicinity of the former truck repair area and RIMW-9.
- RIMW-12 was completed off-site in the sidewalk south of the southern property boundary, downgradient of the building.

Prior to completing the soil borings inside the building, a concrete coring drill was used to provide access through the concrete floors. Soil borings were advanced using direct push methodology via hydraulic hammer on a track-mounted probe rig. Soil samples were collected with a macrocore sampler that contained a 2-inch outer diameter by 48-inch long acetate liner. A new acetate liner was used for each 4-foot sample run. Soil boring locations RISB-12 through RISB-24 and monitoring well locations RIMW-1 through RIMW-10 were advanced to approximately 16 feet below the starting grade. Two exceptions were RISB-13 and RISB-14, which were completed on the first floor in the former loading dock area.

Refusal was encountered in RISB-13 at 3 feet below ground surface (fbgs) and a void space was observed from approximately 3 feet below grade to refusal at 11 feet below grade. The void space is likely associated with the basement space with refusal due to the basement concrete floor slab. There was no evident access to this area.

The exterior and off-site soil boring/monitoring well locations (RIMW-11 and RIMW-12) were completed using a rotary drill rig advancing 4¼ inch inner diameter hollow stem augers (HSAs). The concrete sidewalks were cored prior to advancing the HSAs. The subsurface soil/fill was retrieved from the subsurface by driving a 2 foot long split spoon sampler ahead of the lead auger. The depth of the soil borings were 36 fbgs (RIMW-11) and 40 fbgs (RIMW-12) from exterior ground surface.

Table 1A provides elevation information for the soil borings and soil/fill samples relative to each other, as the investigation locations were at various starting elevations within the building interior and building exterior. Table 1B provides elevation and construction details for the monitoring wells.

Soil boring samples were examined by qualified Benchmark-TurnKey personnel. The soil/fill samples retrieved from the borings allowed for visual, olfactory, PID assessment of subsurface conditions. Soil/fill samples were collected from the borings for laboratory analysis (see Table 2). Soil samples retrieved were field screened for the presence of volatile organic compounds (VOCs) using a PID equipped with a 10.6 eV lamp to identify potentially impacted soil/fill samples for laboratory analysis and as a procedure for ensuring the health and safety of personnel at the Site. PID readings were not measured above background levels at the investigation locations. The subsurface conditions encountered in addition to field screening measurements are presented on the soil boring logs in Appendix B.

Representative soil/fill samples that were selected were placed in pre-cleaned laboratory provided sample jars, cooled to 4°C in the field, and transported under chain-of-custody command to TestAmerica for analysis. The soil/fill samples were analyzed for Target Compound List (TCL) VOCs, TCL semi-volatile organic compounds (SVOCs), Target Analyte List (TAL) metals including cyanide, PCBs, pesticides, and herbicides as detailed on Table 2.

Samples were collected and analyzed in accordance with USEPA SW-846 methodology with equivalent NYSDEC Category B deliverables to allow for independent third-party data usability assessment.



### ***2.1.4 Groundwater Investigation***

Benchmark-TurnKey personnel provided oversight for the installation of 12 groundwater monitoring wells, identified as RIMW-1 through RIMW-12, to investigate groundwater flow direction and quality. RIMW-1 through RIMW-10 are located on-site and RIMW-11 and RIMW-12 are located off-site to the east and south, respectively. These two wells were installed to monitor the deeper groundwater zone than the groundwater zone assessed by RIMW-1 through RIMW-10 installed in June 2016. The purpose was to determine if there are “deep” cVOC impacts. Details of the well installation, well development, and groundwater sampling are provided below.

#### ***2.1.4.1 On-Site Monitoring Well Installations***

Track-mounted direct-push drill rigs were used to install the 10 on-site groundwater monitoring wells. Due to interior ceiling height restrictions and underground utilities 4 of the 10 on-site monitoring wells identified in the RI Work Plan were installed within the soil borings as 1-inch diameter PVC monitoring wells (RIMW-1, -3, -4, and -5). The other six monitoring well locations were installed using a direct-push drill rig equipped with a rotary spindle with 4¼-inch hollow stem augers. The wells installed at these locations (RIMW-2, -6, -7, -8, -9, and -10) are constructed of 2-inch diameter PVC. The on-site monitoring wells were constructed of either 1-inch or 2-inch ID diameter flush-joint Schedule 40 PVC casing with a 10-foot flush-joint Schedule 40 PVC, 0.010-inch machine slotted well screen. The well screen and attached riser were placed at the bottom of the borehole and a silica sand filter pack was installed from the base of the well to approximately 2 feet above the top of the screen. A bentonite chip seal was installed over the sand pack and hydrated. Concrete used to restore the surface and install the steel flushed mounted road box was placed over the bentonite chips. The newly installed monitoring wells were completed with lockable J-plugs.

Figure 5 identifies the approximate location of the wells. Table 1B contains well construction information, and Appendix B contains the well construction logs.

#### ***2.1.4.2 Off-Site Monitoring Well Installations***

A truck-mounted rotary drill rig was used to install the two off-site groundwater monitoring wells (RIMW-11 and RIMW-12). The off-site monitoring wells were constructed of 2-inch ID diameter flush-joint Schedule 40 PVC casing with an 8-foot flush-joint Schedule 40 PVC, 0.010-inch machine slotted well screen. The well screen and attached

riser were installed and a silica sand filter pack was installed from the base of the well to approximately 6 inches above the top of the screen. A 3 foot bentonite chip seal was installed over the sand pack and hydrated. The remainder of the borehole was filled with a cement-bentonite grout to approximately 1 foot below exterior grade. Concrete used to restore the surface and install the steel flushed mounted road box. The newly installed monitoring wells were completed with lockable J-plugs.

#### ***2.1.4.3 Monitoring Well Development***

The installed monitoring wells were developed after installation, in accordance with the approved work plan, and Benchmark-TurnKey and NYSDEC protocols. Development of the monitoring wells was accomplished with dedicated disposable polyethylene bailers via surge and purge methodology. Field parameters including pH, temperature, turbidity, dissolved oxygen (DO), oxidation-reduction potential (ORP), and specific conductance were measured periodically (i.e., every well volume or as necessary) during development until they became relatively stable. Stability was defined as variation between measurements of approximately 10 percent or less with no overall upward or downward trend in the measurements or a minimum of 10 well volumes. Development water was containerized in 55-gallon drums. The on-site wells were developed on June 7 and 8, 2016. The off-site monitoring wells were developed on November 23, 2016. Appendix C includes the well development logs.

#### ***2.1.4.4 Groundwater Sample Collection and Analysis***

Groundwater samples from the 10 on-site monitoring wells were collected on June 14, 2016. Groundwater samples from the two off-site groundwater wells and on-site well RIMW-9 were collected on November 28, 2016. Due to the decrease in concentrations detected in RIMW-9 from the June to November 2016 sampling events, RIMW-9 was resampled again on December 9, 2016.

Prior to sampling, Benchmark-TurnKey personnel purged a minimum of one well volume and sampled monitoring wells using dedicated equipment. Field measurements for pH, specific conductance, temperature, turbidity, dissolved oxygen, ORP, and water levels, as well as visual and olfactory field observations, were periodically recorded and monitored for stabilization during sampling. Appendix C includes the well purge/sampling logs.

The groundwater samples were placed in pre-cleaned, pre-preserved laboratory provided sample bottles, cooled to 4°C in the field, and transported under chain-of-custody command to a NYSDOH ELAP-certified analytical laboratory. The on-site groundwater samples collected in June 2016 were analyzed for TCL VOCs, TCL SVOCs, TAL metals plus cyanide, PCBs, pesticides, and herbicides as detailed on Table 2. Based on the results of the initial RI, the off-site groundwater samples and the resample of RIMW-9 collected in November and December 2016 were analyzed for TCL VOCs only. The sampling was performed in accordance with USEPA SW-846 methodology with equivalent NYSDEC Category B deliverables to allow for independent third-party data usability assessment.

### ***2.1.5 Soil Vapor Intrusion Investigation***

A soil vapor intrusion (SVI) investigation was completed to assess the potential for soil vapor conditions within the existing building (basement and first floor). The area of the first floor that was assessed does not have an underlying basement. To perform the evaluation, seven locations were selected as sub-slab vapor (SSV) sample locations. Two indoor air samples (one from the first floor and one from the basement), and one outdoor ambient air sample were collected concurrently with the SSV samples. The outdoor ambient air sample (OA) was collected to establish background conditions. Figure 5 shows the SVI sample locations.

#### ***2.1.5.1 Pre-sample Assessment***

Prior to initiation of SVI sampling, a pre-sampling inspection was performed to identify and minimize conditions that may interfere with or bias testing (e.g., open containers of solvents, paints, etc.). Figure 5 identifies the approximate interior partitions of the building and identifies the sample locations. Appendix D includes the completed NYSDOH Indoor Air Quality Questionnaire and Building Inventory.

#### ***2.1.5.2 Sub-Slab Vapor & Ambient Air Sample Collection***

Sub-slab vapor and ambient air sampling was completed in general conformance with the NYSDOH Soil Vapor Intrusion Guidance (Ref. 3) and Benchmark-TurnKey's Ambient Air/Sub-slab Vapor Sampling Field Operating Procedure, which was included with the approved RI Work Plan.

At each SSV sampling location, Benchmark-TurnKey personnel drilled a hole through a competent portion of the concrete slab, away from cracks and floor drains using a hand-held hammer drill. SSV samples were collected in the following manner:

- After installation of the borings, the sample tubing was sealed at the surface with non-VOC containing clay.
- Helium was used as a tracer gas to verify the surface seal of the soil vapor points were sufficient. A helium detector with internal air pump was connected to the tubing to monitor the soil vapor for helium prior to and during the release of helium into a shroud placed over the top of the sampling point at ground surface. The helium detector readings were within acceptable levels (i.e., less than 10% helium) and the surface seals considered to be acceptable.
- Once the surface seals were sufficient, the soil vapor sample canisters with regulators were connected to the polyethylene tubing and the sample valves were opened to initiate the sampling.
- Flow rates for both purging and sample collection were regulated to less than 0.2 liters per minute; and,
- SSV sample canisters were equipped with a 24-hour regulator to allow the sample to be collected over an approximate 24-hour period.

Concurrent with the SSV samples, two indoor ambient air sample (IA-1 and IA-2) and an outdoor air sample (OA-1) were collected. IA-1 was collected from within the former Truck Repair Area and IA-2 was collected from the former Machine Shop Area. OA-1 was collected from the exterior of the building along Ellicott Street, upwind of the facility determined the day of the SVI field activities, as shown on Figure 5.

Both the indoor air and outdoor air sample canisters were also equipped with a 24-hour regulator to allow the sample to be collected over the same approximate 24-hour period as the SSV samples.

Each canister, with an initial vacuum of approximately 30 inches of mercury (in Hg) was fitted with an appropriate regulator for the 24-hour sampling period. The summa canister valves were kept closed until the SSV samples were completed and the ambient indoor and outdoor air canisters were in their respective positions. Appendix D includes sampling forms with sample duration and starting and ending vacuums.

The SVI samples were collected between May 19 and 20, 2016. After the sampling was completed, the regulator valves were closed and the soil vapor samples were transported to the laboratory for TCL VOCs analysis via USEPA Method TO-15 (see Table 2).

### ***2.1.6 Field Specific Quality Assurance/Quality Control Sampling***

In addition to the soil/fill and groundwater samples described above, field-specific QA/QC samples were collected and analyzed to ensure the reliability of the generated data as described in the QAPP and to support the required third-party data usability assessment effort. Site-specific QA/QC samples included matrix spikes, matrix spike duplicates, blind duplicates, and trip blanks.

## **2.2 Site Mapping**

A Site map was developed during the RI field investigation. Benchmark-TurnKey was provided a basement plan and first floor plan that identified the various interior features such as hallways, rooms, columns and doorways. These floor plans were used to locate the interior utilities/structures, soil borings, monitoring wells, and SVI sample locations based on the interior features and were overlain onto the various investigation location figures via AutoCAD.

Benchmark-TurnKey used existing Site features to identify the exterior investigation locations, as the majority of the Site is covered with building footprints.

Monitoring well monitoring point elevations were measured by Benchmark-TurnKey and used as the basis for the groundwater isopotential map showing the general direction of groundwater flow based on water level measurements (see Figure 6).

## **2.3 Decontamination & Investigation-Derived Waste Management**

Every attempt was made to use dedicated sampling equipment during the RI; however, non-dedicated equipment was required and/or used (e.g., hollow stem augers, macrocore sampler, down-hole pump) and was decontaminated with a non-phosphate detergent (i.e., Alconox®) and potable water mixture, rinsed with distilled water, and air-dried before each use in accordance with Benchmark-TurnKey's field operating procedures (FOPs).

Investigation-derived waste (IDW) consisting of drilling spoils and groundwater development water was containerized and staged on-site. Pending the results of the analytical samples, the soil/fill and water may be reused or discharged to the ground surface at the Site or properly disposed.

IDW will be reused, recycled, and/or disposed off-site, in accordance with the approved remedial activities.

### 3.0 SITE PHYSICAL CHARACTERISTICS

The physical characteristics of the Site observed during the RI are described in the following sections.

#### 3.1 General Site Features

The Site consists of a single parcel totaling approximately 2.11 acres, located at 791 Washington Street in the City of Buffalo, Erie County, New York. The Former Trico Plant is bounded by commercial properties to the north; Ellicott Street and a surface parking lot to the east; Goodell Street and the Eastman Machine Company to the south; and Washington Street and commercial and residential properties to the west.

The property is currently developed with a complex of five adjoining buildings totaling 617,627 square feet, with an 85,800 square-foot building footprint. The building complex is currently vacant and has been idle since at least 2000.

The Site is generally flat lying with limited topographic features as the building footprint occupies the majority of the Site. The surface elevation is about 635 feet above mean sea level. The area surrounding the Site increases in elevation to the north and decreases in elevation to the south.

Prior to the start of the RI activities, a chain-linked fence was installed around the entire property to restrict access.

#### 3.2 Geology and Hydrogeology

##### 3.2.1 Overburden

The Site is located within the Erie-Ontario lake plain physiographic province, which is typified by little topographic relief and gentle slope toward Lake Erie, except in the immediate vicinity of major drainage ways. The surficial geology of the Lake Erie Plain consists of a thin glacial till (if present), glaciolacustrine deposits, recent alluvium, and the soils derived from these deposits.

According to the 1978 United States Department of Agriculture (USDA) Erie County Soil Map (Ref. 4), the surface soils on the Site is characterized as Urban Land (Ud), consisting of level to gently sloping land with 80 percent or more of the soil surface covered by asphalt, concrete, buildings, or other impervious structures typical of an urban environment. Mapping of the surface soils in the vicinity of the Site, based on the USDA soil

survey, indicates the surficial geology of the area consists of various loams, with slopes typically ranging from 0 to 6%.

The geology at the Site was investigated during the RI. With the exception of RISB-15 and RISB-16, which were completed in the roadway of the former Burton Street on the north side of the Site, RI locations were located within the Site building footprint. In some locations underlying the concrete building slab, a thin veneer (2 to 3 inches) of fill material was present consisting of black fine to coarse sand with ash. The underlying native soils generally consisting of a varying thickness and alternating layers of reddish-brown sandy lean clays and sandy silts to depths of 40 feet below investigation starting grade. Appendix B includes the soil boring and well construction logs.

### ***3.2.2 Bedrock***

Based on the bedrock geologic map of Erie County (Ref. 5), the Site is situated over the Onondaga Formation of the Middle Devonian Series. The Onondaga Formation is comprised of a varying texture from coarse to very fine crystalline with a dark gray to tan color, and chert and fossils within. The unit has an approximate thickness of 110 to 160 feet. Structurally, the bedrock formations strike in an east-west direction and exhibit a regional dip that approximates 40 feet per mile (3 to 5 degrees) toward the south and southwest. Depth to and type of bedrock below the Site has not been determined by drilling.

### ***3.2.3 Hydrogeology***

The Site is located in the Erie-Niagara River Basin. In the Erie-Niagara Basin, the major areas of groundwater are within coarser overburden deposits and limestone and shale bedrock. Regional groundwater may flow south towards the Buffalo River and/or west towards Lake Erie.

Groundwater measurements collected during the RI on June 10, 2016 from the 10 monitoring wells indicate a southerly groundwater flow direction. Figure 6 presents the overburden groundwater isopotential map for the June 10 event.

### ***3.2.4 Hydraulic Gradients***

Using well installation and water level information collected during the RI (June 2016), the hydraulic gradient was calculated to range from 0.02 to 0.03 feet/foot.



## 4.0 REMEDIAL INVESTIGATION RESULTS

The nature and extent of contamination at the Site was further characterized using soil, groundwater, and SVI samples collected and analyzed as part of the RI. Solid content samples were also collected from select drainage structures located within the former truck repair area. As described above, samples collected during previous investigations were used to supplement this RI.

The soil, groundwater, drainage structure solids and SVI samples collected during the RI sampling events were submitted for analyses under chain-of-custody to a NYSDOH ELAP-certified laboratory. Analytical services were performed in accordance with SW-846 analytical methods and protocols. Appendix E contains laboratory analytical data packages for samples analyzed from the RI. Tabulated analytical data discussed in this section includes results from prior investigations as well as the RI data collected by Benchmark-TurnKey personnel. Tabulated analytical results are shown only for those parameters for which a value greater than the laboratory method detection limit (MDL) was detected at a minimum of one sample location.

Figure 5 shows the RI and previous investigation sampling locations. Table 2 summarizes the sampling and analytical program employed under RI.

### 4.1 Historic Soil/Fill Investigation Results

As described in Section 1.2, Benchmark-TurnKey completed a limited subsurface investigation at the Site in 2013. A total of 11 soil borings were completed through the first floor and basement foundations of the Site building (see Figure 5) to depths of approximately 2 fbs. A total of 10 soil/fill samples were submitted for laboratory analysis.

The analytical results identified detectable concentrations of PAHs in every sample collected from beneath both the first floor and basement foundations. Concentrations of PAHs in exceedance of the 6NYCRR Part 375 (Ref. 5) Restricted-Residential SCOs (RRSCOs) were detected in soil borings identified as SB-10 (4 analytes) and to a lesser extent SB-11 (one analyte). PAHs in exceedance of the RRSCOS include benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

Five soil/fill sample locations contained detectable concentrations of PCBs, one with a concentration in slight exceedance of the RRSCOs (SB-8; 2.462 mg/kg over its RRSCO of 1.0 mg/kg).

Analytical results indicate that 3 of the 10 sample locations analyzed for metals contained concentrations in exceedance of the RRSCOs for at least one metal. Arsenic concentrations exceeded its Part 375 RRSCO in soil boring SB-2, mercury exceeded its RRSCO at SB-7, and barium exceeded its RRSCO at SB-8

Table 3A contains the historic sample results compared to RRSCOs.

#### **4.2 Remedial Investigation Utility/Sewer Inspection**

A Site inspection was performed to locate on-site utility and sewer services. Figure 4 shows the locations of the utility and sewer structures. Appendix A includes a tabulated summary of the inspection results.

In general 23 of the 36 structures observed contained sediment and/or standing water. No olfactory evidence of contamination was noted. Slight sheen was observed within three structures (S-1, S-15, and S-24) and some residual oil product was observed at structures S-1 and S-16. Black stained sediments were also observed at three structures (S-1, S-7, and S-8). PID measurements slightly above background (e.g., 0 ppm) were noted at four locations: S-13 (0.6 ppm); S-15 (0.7 ppm); S-16 (1.7 ppm), and S-17 (0.8 ppm). The locations of the structures noted above are as follows:

- S-1 was located in an area of former fuel oil pumps.
- S-7 and S-8 were located in the former tool & dye storage area.
- S-13 and S-15 were in the former truck repair area.
- S-16 and S-17 were located in the former plastic molding area.
- S-24 was located in the area of the former plastics molding and machine shop.

During the supplemental investigation activities in November 2016, NYSDEC requested that 3 samples of the solid content from structures present within the former truck repair area be submitted for the VOC analysis. The samples submitted were the 3 locations with the highest PID field screening of the solid content, if present. The structures sampled were S-12, S-14 and S-15.

#### **4.3 Remedial Investigation Soil/Fill Investigation Results**

Benchmark-TurnKey completed the RI soil/fill investigation across the Site in accordance with the Department's approved RI/AA Work Plan and to address NYSDEC

comments received in a letter dated October 26, 2016 on the draft RI/AA Report that was submitted July 2016. In total, 36 soil borings were advanced, of which 34 were on-site to further assess subsurface conditions across the Site and two soil borings were completed off-site. Of the 34 on-site locations, two locations (RI SB-15/RIMW-1 and RI SB-16) were located north of the building on the exterior portion of the Site in the former Burton Street roadway. The two off-site locations were also exterior locations completed in the sidewalks east and south of the building and property lines. The remaining 34 locations were completed within the building footprint and were advanced through the concrete building slab into the under lying soil/fill. Attempts were made to complete soil borings at each of the proposed locations. Due to utilities in the former Burton Street and the thickness of concrete in the former loading dock area, certain locations were moved to accommodate the condition.

Deviations to the RI/AA WP are as follows:

- RISB-14 was completed in the former loading dock area. A void space was present from 3 to 11 fbgs below the concrete/concrete block and refusal was encountered at 11 fbgs. This void space is likely associated with the foundation/basement in this area, which could not be accessed. Therefore, no soil samples were collected from RISB-14.
- After multiple attempts, the location of RIMW-2 was moved to the location of RISB-12 due to the thickness of concrete, quantity of rebar, and subsurface conditions that necessitated using hollow stem augers to install the well.
- Due to the presence of a water line and number of utilities present in the former Burton Street, the location of RIMW-1 was moved to the location of RISB-15.

Table 1A contains elevations for the soil/fill samples relative to each other. Table 3 presents a summary of the RI subsurface soil/fill sample results with comparison to applicable SCOs.

#### ***4.3.1 Qualitative Soil Screening***

During the soil boring subsurface soil/fill investigation activities, a PID was used to field screen the subsurface soil/fill samples. No PID measurements above background (e.g., 0 ppm) were noted within the initial RI soil/fill samples (June 2016) or the two off-site soil borings. PID readings were noted during the supplemental investigation activities at 7 for the 11 soil boring locations. PID measurements at RISB-26, -30, and -31 were less than 1

ppm. PID measurements above background at RISB-27, -28, -32, and -33 ranged from 0.1 to 15 ppm (RISB-32 6.5 to 12 fbgs). No visual and/or olfactory evidence of contamination were observed within the soil borings. PID measurements are shown on the soil boring logs in Appendix B.

PID measurements slightly above background up to 1.7 ppm were noted at four utility/sewer structure locations, S-13, -15, -16 and -17 as shown on Figure 4. During the supplemental investigation, PID measurements of the solids collected and screened at S-12, S-14, and S-15 were 0.1 ppm, 2.5 ppm, and 8.6 ppm, respectively. The results were background (e.g., 0 ppm) from the other three locations.

#### ***4.3.2 Volatile Organic Compounds***

A total of nine samples were submitted for TCL VOC analysis. No VOCs were detected above USCOs or Protection of Groundwater SCOs (PGWSCOs) in the four samples submitted for TCL VOC analysis during the June 2016 sampling (see Table 3).

During the supplemental investigation completed in the former truck repair area and former plastics in November 2016, five additional samples were submitted for TCL VOC analysis only. Cis-1,2-dichloroethene (cis-DCE) and trichloroethene (TCE) were detected in three samples (RISB-27, 7 to 8 fbgs; RISB-27, 11 to 12 fbgs; and RISB-28, 4 to 6 fbgs) at concentrations above their respective USCOs and PGWSCOs but well below their RRSCOs. Tetrachloroethene (PCE) was detected at one sample location (RISB-32, 7 to 8 fbgs) at a concentration above its USCOs and PGWSCOs but well below its RRSCOs.

#### ***4.3.3 Semi-Volatile Organic Compounds***

No SVOCs were detected above USCOs in the 21 samples submitted for TCL SVOC analysis (see Table 3).

#### ***4.3.4 Metals***

Arsenic was detected slightly above its RRSCO in one (RISB-13, 1 to 3 fbgs; 26.9 mg/kg) of the 21 samples submitted for TAL metals analysis. RISB-13 was completed in the former Loading Dock Area. The remaining metal analytes detected were below their respective RRSCOs (see Table 3).

#### ***4.3.5 Polychlorinated Biphenyls***

There were no PCBs detected above MDLs in the 21 samples submitted for analysis.

#### ***4.3.6 Pesticides and Herbicides***

There were no pesticides or herbicides detected above MDLs in the five samples submitted for pesticide and herbicide analysis.

#### ***4.3.7 Historic and Remedial Investigation Subsurface Soil/Fill Summary***

VOCs, specifically cis-DCE, TCE, and PCE were detected in in the former truck repair area of the Site. The detections of these three compounds were above their respective USCOs and PGWSCOs but well below their RRSCOs.

No SVOCs were detected at concentrations exceeding their respective USCOs during the RI. Two sample locations (SB-10 and SB-11) from the historic investigation had slightly elevated SVOCs above RRSCOs; however, total SVOCs were 31.6 mg/kg in SB-10 and 5.1 mg/kg in SB-11.

No PCBs, pesticides, or herbicides were detected above MDLs during the RI. One sample location (SB-8) had slightly elevated PCB concentration of 2.462 mg/kg above its RRSCO of 1.0 mg/kg.

Arsenic was the only metal analyte detected during the RI above its respective RRSCO and at only one location (RISB-13; 1-3'). Arsenic, mercury, and barium were the only metal analytes detected slightly above their respective RRSCOs during the historic investigation; arsenic in SB-2 (22 mg/kg), mercury in SB-7 (1.4 mg/kg), and barium in SB-8 (530 mg/kg).

### **4.4 Groundwater Investigation**

Benchmark-TurnKey personnel provided oversight for the installation of 10 on-site and two off-site RI groundwater monitoring wells to investigate groundwater quality and flow. Table 4 presents a comparison of the detected groundwater parameters in the on and off-site groundwater samples collected to the applicable groundwater quality standards (GWQS) from NYSDEC's TOGS 1.1.1 (Ref 6). Groundwater samples were collected in accordance with the work plan and analyzed in accordance with parameters shown in Table 2.

#### ***4.4.1 Volatile Organic Compounds***

The following five VOCs were detected above their respective GWQS in the on-site groundwater samples:

- cis-Dichloroethene (cis-DCE; two locations)

- Tetrachloroethene (PCE; one location)
- trans-DCE (two locations)
- Trichloroethene (TCE; four locations)
- Vinyl chloride (one location)

These five compounds will be referred to as cVOCs, as they contain at least one covalently bonded atom of chlorine that has an effect on the chemical behavior of the molecule. They are typical compounds found in chlorinated solvent products and/or are the chemical breakdown or daughter compounds of compounds found in chlorinated solvents. These compounds also have a specific gravity which is greater than water and are known in the “sink” within the groundwater.

The majority of the other VOC detections were reported by the laboratory as estimated (J-flagged) values and are below their respective GWQS (see Table 4).

In the June 2016 sampling event, PCE was detected in groundwater at a concentration of 4,200 micrograms per liter (ug/L) at RIMW-9 within the former Truck Repair area. TCE (7 ug/L) and cis-DCE (1.8 ug/L) were also detected in this location. The total cVOC concentration at this location (4,208 ug/L) was the highest cVOC concentration detected in groundwater at the Site.

Chlorinated VOCs were also detected at RIMW-7 (225 ug/L) and RIMW-4 (424.1 ug/L), at concentrations one order of magnitude less than those detected at RIMW-9. The cVOCs detected at RIMW-7 [TCE (89 ug/L), cis-DCE (36 ug/L) and trans-DCE (100 ug/L)] and RIMW-4 [TCE (82 ug/L), cis-DCE (140 ug/L) and trans-DCE (200 ug/L), and VC (2,1 ug/L)] are either breakdown products of PCE or the result of a release of TCE as the primary constituent.

TCE (11 ug/L) was the only compound detected slightly above its GWQS of 5 ug/L in the groundwater sample collected from MWRI-2.

No VOCs were detected above their respective GWQS in the groundwater samples collected from RIMW-11 and RIMW-12 in November 2016. As part of the November 2016 groundwater sampling, Benchmark-TurnKey elected to collect another groundwater sample from RIMW-9 to confirm the elevated concentrations. The groundwater sample and duplicate sample results from the resample of RIMW-9 indicated PCE was the only VOC detected above its respective GWQS at concentrations of 8.5 and 7.2 ug/L (in the duplicate). These results are four orders of magnitude lower than the initial sampling in June 2016. To

confirm the November 2016 results at RIMW-9, Benchmark-TurnKey collected an additional sample in December 2016. The results of the December 2016 groundwater sample from RIMW-9 did not have VOC detections above their respective GWQS. [PCE was detected at a concentration of 4.9 ug/L, which is slightly below its GWQS of 5 ug/L.]

Figure 7 provides the locations and concentrations of the cVOCs detected in the groundwater. As shown, the cVOCs detected at concentrations above their respective GWQS are located below the central portion of the building in an east-west direction.

#### ***4.4.2 Semi-Volatile Organic Compounds***

Two SVOCs were detected above their respective GWQS in sample RIMW-9; benzo(b)fluoranthene (0.71 ug/L) and chrysene (0.56 ug/L). Both results were identified as estimated concentrations by the laboratory, as were the concentrations of the other SVOCs detected (see Table 4).

#### ***4.4.3 Metals***

Groundwater samples collected during the RI were analyzed for both total metals (10 samples) and dissolved metals (six samples). The dissolved metals analyses were completed on samples with elevated turbidity, as required by the RI/AA Work Plan, and were filtered at the laboratory. As summarized in Table 4, total metals detected above their respective GWQS/GVs consist of the following analytes:

- Arsenic: two locations
- Barium: one location
- Beryllium: one location
- Chromium: two locations
- Cobalt: five locations
- Copper: one location
- Iron: nine locations
- Lead: four locations
- Magnesium: 10 locations
- Manganese: four locations
- Nickel: two locations
- Sodium: 10 locations
- Vanadium: four locations

A number of the metal analytes (i.e., iron, lead, magnesium, manganese and sodium) detected in the total metal groundwater samples are naturally occurring analytes and typical to urban setting such as the Site. Arsenic, barium, beryllium, chromium, cobalt, copper, nickel and vanadium are also natural occurring but less common in groundwater.

By comparison, the results of the six dissolved metal samples compared to the total metal samples collected from the same locations indicate a considerable decrease in the number of analytes and concentrations detected, with the exception of manganese and sodium. Dissolved metals detected above their respective GWQS/GV consist of the following analytes:

- Cobalt: two locations
- Iron: one location
- Magnesium: five locations
- Sodium: six locations

Based on RI groundwater data, there are minor metal analyte impacts to groundwater. The analytes detected above their respective GWQS/GV, with the exception of cobalt, iron, magnesium, and sodium detected in the dissolved samples, were from total metals in unfiltered samples with high turbidity. The results are likely biased high due to sediment present within those groundwater samples analyzed.

The Site and surrounding areas are on public-supplied water. Iron is a common analyte found in urban settings; and magnesium and sodium are common to road salt used on the streets surrounding the Site. Dissolved cobalt was detected at two locations: RIMW-3 (7.3 ug/L) and RIMW-8 (5.5 ug/L) at concentrations slightly above its GWQS of 5.0 ug/L. The other analytes are common in urban areas or present due to the suspended sediments in the total metal sample. Therefore, metals are not considered to be constituents of concern (COCs) in Site groundwater.

#### ***4.4.4 Polychlorinated Biphenyls***

PCBs were not detected in the 10 samples submitted for PCB analysis. Therefore, PCBs are not considered to be COCs in Site groundwater.

#### ***4.4.5 Pesticides and Herbicides***

The majority of pesticide and herbicide compounds were reported as non-detect or trace (estimated) concentrations below the laboratory quantitation limit and GWQS, with the



exception of delta-BHC which was detected slightly above its respective GWQS at RIMW-3. This delta-BHC result was reported by the laboratory as an estimated value and soil/fill samples did not have detectable concentrations of either pesticides or herbicides. Therefore, pesticides and herbicides are not considered to be COCs in Site groundwater.

#### ***4.4.6 Groundwater Results Summary***

As described above, certain VOCs, and to a lesser extent SVOCs, metals, and pesticides, were detected above GWQS. Herbicides were not detected in the groundwater samples collected.

VOCs, specifically cVOCs, were detected at four locations in the central portion of the Site and are likely the cause of SVI as discussed in Section 4.6. The detected concentration of cVOCs in the groundwater is less than 0.5 milligrams per liter (mg/L) or 500 ug/L. Initially, the highest concentration of cVOCs was PCE at RIMW-9. However, subsequent sampling completed at this location in November and December 2016 indicate the cVOC concentrations are significantly lower in the 5 to 8 ug/L range.

The concentrations of cVOCs detected above their respective GWQS are located at RIMW-2, -4, -7 and -9 from west to east and are hydraulically cross-gradient of each other as it pertains to groundwater flow direction (north to south). Groundwater samples results indicate the presence of parent compounds PCE and/or TCE and their daughter products, including cis-DCE, trans-DCE and VC, which indicates on-going natural attenuation of cVOCs in groundwater.

Two SVOCS were detected at one location (RIMW-9) at concentrations above their respective GWQS; however, these detection are relatively low and not considered significant.

Minor metal analyte contaminants are present in the groundwater. The analytes detected above their respective GWQS/GV, with the exception of cobalt, iron, magnesium and sodium detected in the dissolved samples, were from total metals in unfiltered samples with high turbidity. The results are likely biased high due to sediment present within those groundwater samples. Iron is a common analyte found in groundwater in urban settings; and magnesium and sodium are common to road salt used on the streets surrounding the Site. Dissolved cobalt was detected in RIMW-3 and RIMW-8 at concentrations slightly above its GWQS. Metals are not considered to be COCs in Site groundwater.

PCBs were non-detected in the 10 samples submitted for PCB analysis; therefore, PCBs are not considered to be COCs in Site groundwater.

The pesticide and herbicides were reported as non-detect or trace (estimated) concentrations with the exception of delta-BHC, which was detected at an estimated concentration slightly above its respective GWQS at RIMW-3. Pesticides and herbicides are not considered to be COCs in Site groundwater.

In summary, concentrations of cVOCs in groundwater in RIMW-4, RIMW-7 and RIMW-9 are considered significant and will be further evaluated in Section 7.

#### **4.5 Sub-Basement Surface Water Investigation**

Benchmark-TurnKey collected one surface water sample from the standing water present in the sub-basement area in the vicinity of the Boiler Room. The sub-basement could not be entered as water was present at the floor surface of the Boiler Room basement, which is also considered the ceiling of the sub-basement. Table 5 present a summary of the water sample results.

##### ***4.5.1 Volatile Organic Compounds***

No VOCs were detected above MDLs in the surface water sample.

##### ***4.5.2 Semi-Volatile Organic Compounds***

No SVOCs were detected above MDLs in the surface water sample.

##### ***4.5.3 Metals***

Nine metal analytes (barium, calcium, iron, magnesium, manganese, nickel, potassium, sodium and zinc) were detected in the surface water sample.

##### ***4.5.4 Polychlorinated Biphenyls***

No PCBs were detected above MDLs in the surface water sample.

##### ***4.5.5 Pesticides and Herbicides***

The majority of pesticide and herbicide compounds were reported as non-detect with the exception of 4,4'-DDD, which was reported with low estimated concentrations.

##### ***4.5.6 Basement Surface Water Summary***

The results of the basement surface water sampling indicate that low levels of metals and pesticides are present in the water. No VOCs, PCBs, or herbicides were detected above MDLs.

## 4.6 Soil Vapor Intrusion Investigation Results

The SVI investigation consisted of the collection of indoor air (two samples), outdoor ambient air (one sample) and sub-slab vapor samples (six samples). Table 6 summarizes the results of the 10 air samples collected as part of the SVI investigation. The vast majority of detected air constituents were reported by the laboratory as non-detect or estimated values below the laboratory quantitation limit.

Table 7 summarizes and compares the indoor and outdoor air sample results to the NYSDOH *Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes*, Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes in NYS, 1997-2003, revised date November 14, 2005 (NYSDOH Indoor Air criteria).

Table 8 compares the same indoor air and sub-slab results to the NYSDOH Decision Matrices in the Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 (NYSDOH SVI Guidance). The NYSDOH SVI Guidance provides decision matrices for the following seven cVOCs: carbon tetrachloride; 1,1-DCE; cis-1,2-DCE; 1,1,1-TCE; TCE; PCE; and vinyl chloride.

The NYSDOH SVI Guidance matrices require the use of the indoor air and sub-slab vapor sample results in conjunction to determine the resultant outcome. For purposes of the discussion below and based on their respective locations within the building, the following indoor samples were used in conjunction the following sub-slab air samples when reviewing the decision matrix.

- IA -1 was used in conjunction with SSV-1, SSV-2, SSV-3, and SSV-7
- IA-2 was used in conjunction with SSV-4, SSV-5, and SSV-6.

### 4.6.1 Indoor Air Sample Results

Table 7 compares the indoor and outdoor air sample results to the 90<sup>th</sup> percentile concentrations presented in the NYSDOH Indoor Air criteria. The results from IA-1 indicate TCE (1.4 micrograms per cubic meter (ug/m<sup>3</sup>)) was detected above the 90<sup>th</sup> percentile concentration of 0.48 ug/m<sup>3</sup>.

The results from IA-2 indicate that TCE (35 ug/m<sup>3</sup>) and chloroethane (0.68 ug/m<sup>3</sup>) were detected above their respective 90<sup>th</sup> percentile concentration. The 90<sup>th</sup> percentile concentration for chloroethane is <0.25 ug/m<sup>3</sup>.

#### ***4.6.2 Indoor Air & Sub-slab Vapor Sample Results***

Table 8 tabulates the cVOCs subject to the NYSDOH SVI Guidance and compares the results to the respective decision matrices provided in the Guidance. Based on the concentrations of the seven cVOCs detected in the indoor air and corresponding sub-slab samples, the decision matrices indicate that mitigation is required within the building based on the TCE concentrations detected in 5 of the 7 sub-slab sample locations.

#### ***4.6.3 Soil Vapor Intrusion Investigation Summary***

Based on the NYSDOH SVI Guidance decision matrices the building will require mitigation due to elevated TCE concentrations in sub-slab and indoor air samples.

### **4.7 Data Usability Summary**

In accordance with the RI/AA Work Plan, the laboratory analytical data from this investigation was assessed and, as required, submitted for independent review. Data Validation Services located in North Creek, NY performed the data usability summary assessment, which involved a review of the summary form information and sample raw data, and a limited review of associated QC raw data. Two data usability summary reports (DUSRs) were prepared for the RI, one for the June 2016 investigation and one for the November-December 2016 subsequent investigation activities.

Specifically, the following items were reviewed:

- Laboratory Narrative Discussion
- Custody Documentation
- Holding Times
- Surrogate and Internal Standard Recoveries
- Matrix Spike Recoveries/Duplicate Recoveries
- Field Duplicate Correlation
- Preparation/Calibration Blanks
- Control Spike/Laboratory Control Samples
- Instrumental IDLs
- Calibration/CRI/CRA Standards
- ICP Interference Check Standards
- ICP Serial Dilution Correlations

- Sample Results Verification

The Data Usability Summary Report (DUSR) was prepared using guidance from the USEPA Region 2 validation Standard Operating Procedures (Ref. 6), the USEPA National Functional Guidelines for Data Review (Refs. 7 and 8), as well as professional judgment.

In summary, most results are usable either as reported or with minor qualification. Total cyanide results in one sample (RISB-19; 2-4') and its respective field duplicate were rejected due to inconsistent results. The dissolved metals results were qualified as estimated due to the laboratory filtration. The results for 1,4-dioxane during the November and December 2016 supplemental investigation activities are not usable due to poor response inherent in the methodology, although 1,4-dioxane results were non-detect. The additional qualifications/rejections of the data have been incorporated to the summary data tables. Appendix F includes the DUSRs.

#### 4.8 Constituents of Concern (COCs)

Based on the findings of the RI and previous investigations, and the planned redevelopment of the Site, the constituents of concern (COCs) for a restricted residential use are presented below:

***Soil/Fill:*** cVOCs, PAHs, PCBs, metals

***Groundwater:*** cVOCs in the central portion of the building

***Sub-slab Vapor/Indoor Air:*** cVOCs

## 5.0 FATE AND TRANSPORT OF COCs

The subsurface soil/fill, groundwater, SVI, drainage structure solids, and sub-basement water analytical sample results were incorporated with the physical characterization of the Site to evaluate the fate and transport of COCs in Site media. The mechanisms by which the COCs can migrate to other areas or media are briefly outlined below.

### 5.1 Fugitive Dust Generation

Volatile and non-volatile chemicals present in soil can be released to ambient air as a result of fugitive dust generation. Impacted subsurface soil/fill has been identified at the Site and, as such, fugitive dust generation during excavations related to remediation and redevelopment activities is considered a relevant potential short-term migration pathway. Impacted soil/fill above RRSCOs are currently present beneath concrete floors throughout the entire Site.

Particulate monitoring in accordance with the approved Community Air Monitoring Plan (CAMP) will be completed during intrusive activities and, if required, dust mitigation measures will be employed during future remediation and redevelopment.

### 5.2 Volatilization

Volatile chemicals present in soil/fill, drainage structure solids, and groundwater may be released to ambient or indoor air. Volatile chemicals typically have a low organic-carbon partition coefficient ( $K_{oc}$ ), low molecular weight, and a high Henry's Law constant.

Historic operations appear to have impacted groundwater with VOCs, specifically cVOCs in the central portion of the Site as well as the soil/fill and drainage structure solids in the former truck repair area. Based on the SVI investigation activities completed as part of the RI, vapor intrusion of cVOCs into the building is a concern and will required mitigation.

### 5.3 Surface Water Runoff

The potential for soil particle transport due to surface water runoff is low, as the entire Site is currently covered by concrete, asphalt, and buildings, and future redevelopment plans include the same. Any outdoor intrusive activity will incorporate erosion controls that

would be implemented in accordance with an approved stormwater pollution prevention plan (SWPPP). As such, surface water runoff is not considered a relevant migration pathway.

## 5.4 Leaching

Leaching refers to chemicals present in soil/fill migrating downward to groundwater as a result of infiltration of precipitation. The entire Site is currently, and is planned to remain after redevelopment, covered by impermeable surfaces (i.e., asphalt, concrete and buildings) effectively limiting infiltration of precipitation.

VOCs, specifically PCE, TCE, and cis-DCE, were detected in soils above USCOs and PGWSCO but below their respective RRSCOs in the samples collected from former truck repair area. The cVOCs detected in soil are similar to those that have been detected in the groundwater, al be it at low concentrations (maximum 425 ug/L total cVOCs).

Certain PAHs, metals, and PCBs were also detected slightly above RRSCOs; however, these constituents tend to adsorb strongly to soil, sediment, and particulate matter and are not expected to leach. This is further evidenced by the limited detections of PAHs and metals (dissolved phase) in the groundwater above GWQS and lack of correlation to the soil analytical results.

## 5.5 Groundwater Transport

Groundwater underlying the Site flows southerly (see Figure 6) with a calculated average hydraulic gradient of 0.02 to 0.03 feet/foot. RI groundwater analytical results (see Table 4 and Figure 7) indicate cVOCs were detected in the groundwater above their respective GWQS. Two PAHs were detected at one location (RIMW-9) at estimated concentrations and limited metal analytes were present in the dissolved phase in the groundwater, typical of urban environments.

Two “deep” monitoring wells (RIMW-11 and RIMW-12) were installed to assess for deeper off-site groundwater contamination. VOCs were not detected above their respective GWQS at these off-site locations.

The Site and surrounding areas are serviced by a municipal (supplied) potable water service (City of Buffalo) with no evidence of pumping wells in the area of the Site. Site groundwater appears to have a southerly flow and cVOCs present in groundwater are limited to the central portion of the Site (i.e., not detected upgradient or downgradient). The cVOCs do not appear to follow the groundwater flow pathway, which is not typical and

were not detected in the two off-site “deep” groundwater wells installed. Therefore, cVOCs may be transported under the building via utility bedding or the result of localized surface discharges. Transport off-site via groundwater migration is not a relevant migration pathway as off-site groundwater results do not indicate exceedances of GWQS and the COCs present would not reach receptors at significant exposure point concentrations.

## 5.6 Exposure Pathways

Based on the analysis of chemical fate and transport provided above, the pathways through which Site COCs could reach receptors at significant exposure point concentrations are: fugitive dust during intrusive activities and volatilization. Off-site groundwater samples analyzed for VOCs as part of the supplemental investigation did not exceed their respective GWQS.

Mitigation within the building will be required as part of the remedial activities implemented as vapor intrusion is occurring.

During proposed remediation or redevelopment construction activities, a CAMP and erosion and sediment control strategies will be implemented to mitigate the potential for on- and off-site exposure; and, if necessary, excavation dewatering will be completed in accordance with an approved Buffalo Sewer Authority temporary discharge permit.



## 6.0 QUALITATIVE EXPOSURE ASSESSMENT

### 6.1 Human Health Exposure Assessment

A qualitative exposure assessment consists of characterizing the exposure setting (including the physical environment and potentially exposed human populations), identifying exposure pathways, and evaluating contaminant fate and transport.

An exposure pathway describes the means by which an individual may be exposed to contaminants originating from a site. An exposure pathway has the following five elements:

- Receptor population
- Contaminant source
- Contaminant release and transport mechanism
- Point of exposure
- Route of exposure

An exposure pathway is complete when all five elements of an exposure pathway are documented; a potential exposure pathway exists when any one or more of the five elements comprising an exposure pathway is not documented but could reasonably occur. An exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway does not exist in the present and will not exist in the future.

#### ***6.1.1 Receptor Population***

The receptor population includes the people who are or may be exposed to contaminants at a point of exposure. The identification of potential human receptors is based on the characteristics of the Site, the surrounding land uses, and the probable future land uses. The Site is developed with a complex of five adjoining buildings that are currently vacant and have been since at least 2000. Under current Site use conditions (i.e., remediation and redevelopment), receptors would include construction workers involved in the remediation and/or redevelopment of the Site, and trespassers who may traverse the property during intrusive activities. Construction workers will be comprised of adults, and trespassers would likely be limited to adolescents and adults. In both instances, exposure frequency is expected to be minimal (short-term).

The reasonably anticipated future use of the Site is for mixed commercial and residential use consistent with surrounding property use and Site zoning. Exposed receptors under the future use scenario may be comprised of indoor occupants, indoor workers, visitors/customers, outdoor workers (e.g., groundskeepers or maintenance staff), and construction workers who may be employed at or perform work on the property.

### ***6.1.2 Contaminant Sources***

The source of contamination is defined as either the source of contaminant release to the environment (such as a waste disposal area or point of discharge) or the impacted environmental medium (soil, air, biota, water) at the point of exposure. Section 4.0 discusses the COCs present in unremediated Site media at elevated concentrations. Limited areas contain PAHs, PCBs, and metals above RRSCOs in on-site overburden soil/fill material. CVOCs were also detected in the former truck repair area above their PGWSCOS but below their RRSCOs. Groundwater contains concentrations of cVOCs and metals above GWQS/GVs within the same general soil/fill impacted areas. In several basement areas, TCE and cis-1,2-DCE have been identified in soil vapor samples collected from the basement portion of the building at levels requiring mitigation.

No VOCs were detected above their respective GWQS at the off-site monitoring well locations and does not appear to have migrated from the Site.

### ***6.1.3 Contaminant Release and Transport Mechanisms***

Contaminant release and transport mechanisms carry contaminants from the source to points where people may be exposed, and are specific to the type of contaminant and site use. For the non-volatile COCs present in Site soil/fill, contaminant release and transport mechanisms will generally be limited to fugitive dust migration and direct contact during future planned intrusive work/remedial activities since the Site is currently covered by a building complex and asphalt/concrete. For the volatile COCs in the unsaturated zone, the contaminant release and transport mechanism is limited to volatilization during intrusive remedial activities and future Site redevelopment.

For volatile COCs present in the groundwater the transport mechanism would be the groundwater itself. No VOCs were detected above their respective GWQS in the two off-site wells requested by NYSDEC and does not appear to have migrated from the Site.

#### ***6.1.4 Point of Exposure***

The point of exposure is a location where actual or potential human contact with a contaminated medium may occur. Based on the sporadic exceedances of RRSCOs in soil/fill for certain ubiquitous parameters (i.e., arsenic and PAHs), the point of exposure is defined as those areas that will remain after planned remedial activities. For both the current and future use scenarios, groundwater is not considered a relevant mechanism for exposure due to groundwater management procedures during intrusive activities; the availability of a municipal potable water source; and the requirement for an Environmental Easement that will restrict the use of Site groundwater. Additionally, VOCs were not detected above their respective GWQS in the two off-site wells requested by NYSDEC and therefore does not appear to have migrated from the Site.

#### ***6.1.5 Route of Exposure***

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

##### **Current Use Scenario**

- Construction Worker/Environmental Personnel/Trespasser (short-term) – skin contact, inhalation, and incidental ingestion

##### **Future Use Scenario**

- Indoor Occupant – inhalation
- Indoor Worker/Visitor/Customer – inhalation
- Construction and Outdoor Workers (short-term) – skin contact, inhalation, and incidental ingestion

#### ***6.1.6 Exposure Assessment Summary***

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

##### **Current Use Scenario**

- Construction Worker/Environmental Personnel/Trespasser – direct contact, incidental ingestion, and inhalation of non-volatile COCs present in site-wide soil/fill, and inhalation of cVOCs in groundwater during intrusive activities.

### **Future Use Scenario**

- Indoor Occupant – inhalation of cVOCs present in groundwater via the process known as soil vapor intrusion.
- Indoor Worker/Visitor/Customer – inhalation of cVOCs present in groundwater via the process known as soil vapor intrusion.
- Construction and Outdoor Worker – direct contact, incidental ingestion and inhalation of non-volatile COCs present in site-wide soil/fill, and inhalation of cVOCs present in impacted groundwater during intrusive activities.

In most instances, these exposures can be readily mitigated through the use of personal protective equipment (PPE); proper soil/fill management during intrusive activities; adherence to the approved health and safety plan (HASP) and CAMP; engineering controls including existing asphalt/concrete and buildings; and ventilation until the active sub-slab depressurization (ASD) system is installed as a remedial measure within existing buildings. Occupancy of the buildings will not occur until the ASD system is operational.

## **6.2 Fish and Wildlife Resource Impact Analysis (FWIRA)**

The historical use of the Site has eliminated the majority of native species. The Site is currently vacant but the property consists of five adjoined buildings with asphalt/concrete, providing no wildlife habitat or food value. There are no significant natural communities within ½-mile of the Site according to the NYSDEC's Environmental Resource Mapper (ERM); however, the area is listed as containing a rare plant (i.e., Golden Dock last documented in 1898) and rare animals (i.e., Midland Clubtail last documented in 1906, and the American Burying Beetle with no documented date).

The Site is slated for mixed residential and commercial redevelopment, which is consistent with surrounding property use and zoning. The existing buildings, asphalt/concrete, and maintained ornamental landscaping (if any) will substantially limit availability of suitable cover type for reestablishment of biota. Based on the Fish and Wildlife Resource Impact Analysis Decision Key included as Appendix G (NYSDEC DER-10 Appendix 3C), no FWRIA is warranted.

## 7.0 REMEDIAL ALTERNATIVES EVALUATION

### 7.1 Remedial Action Objectives

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

#### Soil/Fill RAOs

- Remove, treat, or mitigate contaminated soil/fill to the degree possible to protect public health and the environment and prevent further degradation of on-site and off-site groundwater quality.
- Prevent ingestion/direct contact with contaminated soil/fill.
- Prevent migration of contaminants that may further result in groundwater or surface water contamination.
- Prevent inhalation of or exposure to contaminants volatilizing from contaminated soil/fill.

#### Groundwater RAOs

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

#### Soil Vapor

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site.

### 7.2 General Response Actions

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

The GRAs available to address the RAOs for soil/fill include:

- Institutional controls (e.g., Site Management Plan, Environmental Easement)
- Engineering controls (e.g., cover system)
- Treatment (e.g., in-situ or ex-situ)
- Excavation and off-site disposal

The GRAs available to address the RAOs for groundwater include:

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

The GRAs available to address the RAOs for soil vapor include:

- Engineering controls (e.g., ASD system)

### 7.3 Standards, Criteria, and Guidance

According to DER-10 Section 1.3(b)71, standards, criteria, and guidance (SCGs) refers to: “*standards and criteria that are generally applicable, consistently applied, and officially promulgated, that are either directly applicable or not directly applicable but are relevant and appropriate, unless good cause exists why conformity should be dispensed with, and with consideration being given to guidance determined, after the exercise of scientific and engineering judgment, to be applicable. This term incorporates both the CERCLA concept of ‘applicable or relevant and appropriate requirements’ (ARARs) and the USEPA’s ‘to be considered’ (TBCs) category of non-enforceable criteria or guidance. For purposes of this Guidance, ‘soil SCGs’ means the soil cleanup objectives and supplemental soil cleanup objectives identified in 6NYCRR 375-6.8 and the Commissioner Policy on Soil Cleanup Guidance (CP-Soil).*”

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

### ***7.3.1 Chemical-Specific SCGs***

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

Previous sampling events included the collection and analysis of subsurface soil/fill, sub-slab and indoor air, groundwater, and basement surface water samples.

One of the remedial alternatives to be assessed for the Site is a Track 4 cleanup for soil/fill. This approach requires institutional controls (e.g., groundwater and land use restrictions, Site Management Plan, and Environmental Easement) and engineering controls (e.g., a soil cover system, ASD system in existing buildings) as components of the final remedy to reduce future potential exposure to impacted soil/fill.

### ***7.3.2 Location-Specific SCGs***

Location-specific SCGs are restrictions placed on the concentration of hazardous substances or the conduct of activities solely because they are in a specific location. Some examples of these unique locations include floodplains, wetlands, historic places, and sensitive ecosystems or habitats. The location of the site is a fundamental determinant of its impact on human health and the environment.

### ***7.3.3 Action-Specific SCGs***

Action-specific SCGs are restrictions placed on particular treatment or disposal technologies. Examples of action-specific SCGs are effluent discharge limits and hazardous waste manifest requirements.

## **7.4 Evaluation of Alternatives**

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

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



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

## 7.5 Anticipated Future Land Use Evaluation

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

1. *Current use and historical and/or recent development patterns:* The Site has historically been used for various residential, commercial, and industrial purposes (e.g., auto repair, brewery, and windshield wiper blade manufacturing plant) since circa 1890. The Site has been vacant since at least 2000. The neighborhood was and continues to be developed as an urban mixed use commercial, residential, recreational, and vacant area. Future Site uses are anticipated to be a mix of commercial and residential uses. **Accordingly, residential and commercial Site redevelopment would be consistent with historic site use.**
2. *Applicable zoning laws and maps:* The Site is located in an area of the City zoned General Commercial District (CM). **Use in a mixed residential/commercial capacity is therefore consistent with current zoning.**
3. *Brownfield opportunity areas as designated set forth in GML 970-r:* The Brownfield Opportunity Area (BOA) Program provides municipalities and community based organizations with assistance to complete revitalization plans and implementation strategies for areas or communities affected by the presence of brownfield sites, and site assessments for strategic sites. **The subject property does not lay within a BOA.**
4. *Applicable comprehensive community master plans, local waterfront revitalization plans as provided for in EL article 42, or any other applicable land use plan formally adopted by a municipality:* The Site lies within the boundaries of the City of Buffalo Comprehensive Plan. **Site remediation and redevelopment in a residential/commercial capacity is consistent with the Buffalo Comprehensive Plan.**
5. *Proximity to real property currently used for residential use, and to urban, commercial, industrial, agricultural, and recreational areas:* The adjacent and surrounding land is an

- urban mixed use residential, commercial, industrial, and vacant area. **Maintaining the use of the Site in a residential/commercial capacity is consistent with surrounding property.**
6. *Any written and oral comments submitted by members of the public on the proposed use as part of the activities performed pursuant to the citizen participation plan:* **No comments have been received from the public relevant to Site use concerns.**
  7. *Environmental justice concerns, which include the extent to which the proposed use may reasonably be expected to cause or increase a disproportionate burden on the community in which the site is located, including low-income minority communities, or to result in a disproportionate concentration of commercial or industrial uses in what has historically been a mixed use or residential community:* **Nearby and adjacent property is actively used in a residential, commercial, and industrial capacity. Maintaining use of the site in a residential/ commercial capacity does not pose environmental justice issues.**
  8. *Federal or State land use designations:* The property is designated as a General Commercial District (CM) by the City of Buffalo Property Viewer. **Reuse in a restricted capacity (residential/commercial) is consistent with the current land use designation.**
  9. *Population growth patterns and projections:* The City of Buffalo, encompassing 52.51 square miles, has a population of 258,071 (2015 Estimate US Census Bureau), a decrease of 1.3% from the 2010 US Census (3,254 people) and, as such, the redevelopment of the Site is not expected to have a significant impact on the housing market. **Reuse of the Site in a residential/commercial capacity provides opportunities for residential growth.**
  10. *Accessibility to existing infrastructure:* Access to the Site is from Washington, Goodell, and Ellicott Streets. Utilities (sewer, water, electric) that service the Site, and adjacent and nearby properties are present along these corridors. **Existing infrastructure supports reuse in a residential/commercial capacity.**
  11. *Proximity of the site to important cultural resources, including federal or State historic or heritage sites or Native American religious sites:* According to the NYS Historic Preservation Office GIS mapping website, the Site lies within an area considered archaeologically sensitive based on information reported to the New York State Office of Parks, Recreation, and Historic Preservation (OPRHP). In addition, the Former Trico Plant is listed on the National Register of Historic Places (Trico Plant No. 1 - 00NR0701). Nineteen additional sites within ½-mile of the Site are listed on the National Register of Historic Place. **Redevelopment of the property in a residential/commercial capacity will not alter these historic site; in fact, the redevelopment will improve the area by remediating and re-using the existing buildings.**

12. *Natural resources, including proximity of the site to important federal, State, or local natural resources, including waterways, wildlife refuges, wetlands, or critical habitats of endangered or threatened species:* There are no significant natural communities within ½-mile of the Site according to the NYSDEC's ERM. Although the area is listed as containing a rare plant (i.e., Golden Dock last documented in 1898) and rare animals (i.e., Midland Clubtail last documented in 1906, and the American Burying Beetle with no documented date), these were documented over 100 years ago. **Since the Site does not provide wildlife habitat or food value, and no natural resources have been identified, residential/commercial redevelopment of the Former Trico Plant will not impact natural resources.**
13. *Potential vulnerability of groundwater to contamination that might emanate from the site, including proximity to wellhead protection and groundwater recharge areas and other areas identified by the Department and the State's comprehensive groundwater remediation and protection program established set forth in ECL article 15 title 31:* Groundwater contamination appears to be limited to the central portion of the Site as the two off-site groundwater wells installed and sampled did not have GWQS exceedances. There are no known deed restrictions on the use of groundwater at the Site. Potable water is supplied to the Site and surrounding vicinity by municipal water service (City of Buffalo). **The cleanup to restricted use conditions will not pose a drinking water threat.**
14. *Proximity to flood plains:* According to the Erie County On-line GIS mapping website, no State or Federal wetlands or floodplains exist within a ½-mile radius of the Site. **As such, cleanup to restricted use conditions does not pose a threat to surface water.**
15. *Geography and geology:* The Site is located within the Erie-Ontario lake plain physiographic province, which is typified by little topographic relief and gentle slope toward Lake Erie. Surface soils on the Site are characterized as Urban Land (Ud), consisting of level to gently sloping land with 80 percent or more of the soil surface covered by asphalt, concrete, buildings, or other impervious structures typical of an urban environment. Surficial geology of the area consists of various loams, with slopes typically ranging from 0 to 6%. In some locations underlying the concrete building slab was a thin veneer (2 to 3 inches) of fill material consisting of black fine to coarse sand with ash underlain by native soils generally consisting of alternating layers of reddish-brown sandy lean clay and silty sands and/or sandy silts to depths of 40 feet below investigation starting grade. **Geography and geology are consistent with a residential/commercial re-use.**
16. *Current institutional controls applicable to the site:* **No institutional controls are currently present that would affect redevelopment options.**

Based on the above analysis, use of the Site in a residential/commercial capacity is consistent with past and current development and zoning on and near the Site, and does not pose additional environmental or human health risk.

## 7.6 Volume, Nature, and Extent of Contamination

Estimation of the volume, nature, and extent of media that may require remediation to satisfy the RAOs or that needs to be quantified to facilitate evaluation of remedial alternatives is presented in this section. For the unrestricted use scenario, the cleanup goal would involve achieving USCOs. For the reasonably anticipated future use scenario, the cleanup goal would involve achieving RRSCOs. The volume and extent of media requiring cleanup under these scenarios is presented in Sections 7.6.1 and 7.6.2. In all instances, these volume estimates (and associated cost estimates presented later in this AAR) are projected based on data collected and observations made during the Phase II and RI activities.

### 7.6.1 Comparison to Unrestricted SCOs (Track 1 Cleanup)

Exceedances of the USCOs were noted in discrete soil/fill samples collected, primarily for cVOCs, PAHs, PCBs, and metals. Figure 8 shows the approximate aerial extent (approximately 27,975 square feet) of USCO exceedances that defines the Track 1 Cleanup area. The depth of impact varies across these four areas. Three sample locations had a concentration above USCOs at a depths greater than 6 fbgs.

- RISB-15, 6-8 fbgs; nickel at a concentration of 30 mg/kg compared to the USCO of 30 mg/kg;
- RISB-27, 7-8 fbgs and 11-12 fbgs; cis-DCE and TCE were above their respective USCOs at this location. However, the 11-12 fbgs USCOs exceedances are in a saturated sample below the groundwater table;
- RISB-32 7-8 fbgs; PCE was detected above its USCO at this location which was collected from just above the groundwater table in this area.

Therefore, a conservative depth of impact of 8 fbgs has been assumed for all four areas. Thus, the volume of impacted soil/fill requiring remediation under the unrestricted use scenario is approximately 8,300 cubic yards.

### ***7.6.2 Comparison to Restricted Residential SCOs (Track 4 Cleanup)***

The soil/fill data indicates limited areas with exceedances of the Part 375 RRSCOs for several constituents. Four soil boring samples (1-2') analyzed during the Phase II and one soil boring sample from the RI exhibited exceedances of the RRSCOs for SVOCs (PAHs), metals, and/or PCBs.

### ***7.6.3 Groundwater Impacts***

Chlorinated VOCs and, to a lesser extent, SVOCs and metals were detected above GWQS. A slight odor was detected during sampling in RIMW-7 and RIMW-9 but not in RIMW-4. Concentrations of cVOCs in groundwater at RIMW-4, RIMW-7 and RIMW-9 are less than 500 ug/L and will be further evaluated for remedial measures. The groundwater contaminant plume covers an approximate 21,600-square foot area.

### ***7.6.4 Basement Surface Water***

The results of the basement surface water sampling indicate that low levels of metals and pesticides are present in the water. No VOCs, PCBs, or herbicides were detected above MDLs. An estimated 144,000 gallons of standing water is present in the basement.

### ***7.6.5 Soil Vapor Intrusion***

Based on the site-specific data and due to the potential for contaminated vapors to travel along a building foundation, the entire building footprint (i.e., 85,800 square feet) as shown on Figure 9 is defined as the soil vapor intrusion area.

## **7.7 Alternatives Evaluation**

In addition to the evaluation of alternatives to remediate to the likely end use of the Site, NYSDEC regulation and policy calls for evaluation of more restrictive end-use scenarios, such as an unrestricted use scenario (considered under 6NYCRR Part 375 to be representative of cleanup to pre-disposal conditions), and a scenario less restrictive than the reasonably anticipated future use. Per NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, evaluation of a “no action” alternative is also required to provide a baseline for comparison against other alternatives. The alternatives evaluated below include:

- Alternative 1: No Action

- Alternative 2: Unrestricted Use (Track 1) Cleanup
- Alternative 3: Restricted Residential Use (Track 4) Cleanup with Groundwater Extraction and Treatment
- Alternative 4: Restricted Residential Use (Track 4) Cleanup with In-Situ Groundwater Treatment

### ***7.7.1 Alternative 1 – No Action***

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

***Overall Protection of Public Health and the Environment*** – The Site is not protective of human health and the environment, due to the presence of contamination remaining on-site above SCGs; and the absence of institutional controls to prevent more restrictive forms of future site use (e.g., unrestricted, residential, and restricted residential) or the export of Site soils to uncontrolled off-site locations. Accordingly, the no action alternative is not protective of public health and does not satisfy the RAOs.

***Compliance with SCGs*** – Under the current and reasonably anticipated future use scenario (restricted residential), the contamination detected in on-site soil vapor, soil/fill and groundwater does not comply with applicable SCGs.

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

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

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

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

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

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

### **7.7.2 Alternative 2 – Unrestricted Use (Track 1) Cleanup**

An Unrestricted Use Cleanup alternative would necessitate remediation of soil/fill where concentrations exceed the USCO per 6NYCRR Part 375. For unrestricted use scenarios, excavation and off-site disposal of impacted soil/fill is generally regarded as the most applicable remedial measure because long-term engineering and institutional controls cannot be used to supplement the remedy. As such, the unrestricted use alternative assumes that those areas that exceed USCOs would be excavated and disposed at an off-site commercial solid waste landfill. Therefore, as described in Section 7.6.1, an estimated 8,300 cubic yards of soil/fill would be excavated to achieve USCOs. In order to access impacted material at depth, the building foundation/slabs within these four areas would need to be removed.

In addition, the contaminant groundwater plume would require remediation and monitoring as removal of groundwater contaminants (cVOCs) present in the soil/fill of the former truck repair area above USCOs would not address the on-site groundwater cVOC contamination plume. A restriction on groundwater use would be included as part of the remedial program per 6NYCRR Part 375. Furthermore, an ASD system would be required, at least in the short term, during remediation of cVOC-impacted groundwater.

**Overall Protection of Public Health and the Environment** – The Unrestricted Use Cleanup would be protective of public health under any reuse scenario. However, this alternative would permanently use and displace approximately 8,300 cubic yards of valuable landfill airspace, causing ancillary environmental issues due to reduced landfill capacity, and require excavating, transporting, and placing 8,300 cubic yards of clean soil from an off-site

borrow source to backfill the excavation, also contributing to significant detrimental off-site environmental issues. The unrestricted use alternative would achieve the corresponding Part 375 SCOs, which are designed to be protective of public health under any reuse scenario.

***Compliance with SCGs*** – The Unrestricted Use Cleanup would need to be performed in accordance with applicable, relevant, and appropriate SCGs. Soil excavation activities would necessitate preparation of and adherence to a CAMP in accordance with Appendices 1A and 1B of DER-10.

***Long-Term Effectiveness and Permanence*** – The Unrestricted Use Cleanup alternative would achieve removal of all residual impacted soil/fill; therefore, no soil/fill exceeding the USCOS would remain on the Site. In addition, groundwater treatment would destroy contaminants within the on-site plume and reduce the off-site migration of cVOCs. As such, the unrestricted use alternative would provide long-term effectiveness and permanence.

***Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment*** – Through removal of all impacted soil/fill and treatment of groundwater, the unrestricted use alternative would reduce the toxicity, mobility, and volume of Site contamination permanently and significantly. However, since this alternative transfers Site soil/fill from one environment to another, an overall reduction of toxicity and volume would not occur. Mobility of soluble constituents would be reduced in the commercial landfill with a liner, cover system, and leachate collection.

***Short-Term Impacts and Effectiveness*** – The principal advantage of a large-scale excavation to achieve USCOS is reliability of effectiveness in the long-term. In the short-term, there would be significant increase in exposure of impacted soil/fill to on-site workers and the community under this alternative. Excavation activities would be completed over an approximate three-week period, and backfilling/concrete foundation repair would take approximately one to two weeks. Commercial construction equipment would be used, a health and safety plan would be followed, and community air monitoring would be completed during excavation activities. However, primary disadvantages include increased truck traffic during excavation and backfill; noise; and air emissions, including fugitive dust



and odors. This action would result in potential storm water impacts at the borrow source(s) and on-site; diesel fuel consumption on the order of 5,550 gallons (assuming 80 miles round trip to a local landfill; 8 miles per gallon) to transport the 555 truckloads of impacted soil/fill, with several thousands of gallons also consumed by construction equipment. The USEPA's estimated CO<sub>2</sub> generation rate for diesel engines is approximately 22.2 pounds per gallon of diesel consumed. Accordingly, this alternative would produce over 200,000 pounds of greenhouse gas. Therefore, this alternative represents a significant adverse effect in the short-term; however, the RAOs would be achieved once the soil/fill is removed from the Site, backfill soils are in place, and groundwater treatment has demonstrated a downward trend in cVOCs (est. 12 months).

***Implementability*** – Excavation of impacted soil/fill beneath foundations within buildings to be reused poses technical implementability concerns relating to building stability. Excavating to depths of 8 fbs in alternating layers of silty sands and sandy lean clays, particularly inside of a building, poses several technical implementability concerns. Sloughing of excavation walls could occur and shoring/stabilizing excavation sidewalls may be necessary. Groundwater handling, treatment, and/or discharge/disposal would be required. Given the high volume of soil/fill required for removal, a high volume of truck traffic in a densely populated area of the City would be needed to transport the impacted soil/fill off-site.

***Cost-Effectiveness*** – The capital cost of implementing the unrestricted use alternative is estimated at \$2.49 million. The annual groundwater sampling and annual reporting costs are estimated \$8,000 per year. The present worth of this alternative assuming 30-years of sampling and reporting is estimated at estimated at \$2.67 million. Table 10 provides a detailed breakdown of these costs.

***Community Acceptance*** – Community acceptance will be evaluated based on comments received from the public in response to Fact Sheets and other planned citizen participation activities.

### ***7.7.3 Alternative 3 – Restricted Residential Use (Track 4) Cleanup with Groundwater Extraction and Treatment***

Under Alternative 3, the Site would be cleaned up to facilitate the reasonably anticipated restricted residential use including:

- Removal and treatment of groundwater via a groundwater extraction and treatment system prior to discharging to the sanitary sewer.
- Removing hydraulic lift infrastructure and any associated impacted soil/fill.
- Managing impacted water during remedial activities and hydraulic lift removal.
- Pumping sub-basement water with on-site treatment, if required by BSA, prior to discharging to sanitary sewer.
- Cleaning accessible utility and/or sewer services with evidence of potential impacts.
- Removing and properly disposing off-site miscellaneous abandoned regulated waste materials; and abating building components for lead, asbestos, oil staining, PCBs, etc. as required during redevelopment. Building surfaces and features planned to remain with evidence of impacts from historic operations will be addressed (e.g., encapsulated or sealed) consistent with a Restricted Residential Use scenario.
- Engineering Controls:
  - Maintaining existing cover system consisting of the building foundations and asphalt on former Burton Street. Building foundations or asphalt cover removed for future development must be replaced by 6 inches of concrete or asphalt (including sub-base material), or a minimum of two feet of clean soil/gravel meeting RRSCOs.
  - Installing an ASD system within the existing buildings.
- Institutional Controls:
  - Implementing an SMP including an Environmental Easement, EC/IC Plan, Site Monitoring Plan, Excavation Work Plan, O&M Plan, Site use limitations, and groundwater use restrictions.

Specific details of the remediation would be provided in the Remedial Action Work Plan (RAWP) and submitted to the Department for review and approval.

***Overall Protection of Public Health and the Environment*** – This alternative meets NYSDEC requirements for a Track 4 cleanup under the BCP regulations and is

protective of public health and the environment. The RAOs for the Site would be satisfied through the planned extent of remedial activities listed above including hydraulic lift removal, limited soil/fill removal (if encountered); groundwater removal, treatment and discharge; removing sub-basement water; cleaning utility/sewer features; installation of an ASD system in the existing building to mitigate potential VOC vapor intrusion concerns; maintaining the existing cover systems; and, the use of ICs to prevent potential future exposure and limit the future use to restricted residential purposes. Groundwater extraction and treatment system performance and groundwater quality will be monitored over time in accordance with the SMP. Accordingly, the Restricted Residential (Track 4) Use Cleanup alternative is protective of public health and fully satisfies the soil, groundwater, and soil vapor RAOs.

***Compliance with SCGs*** – The planned remedial activities will be performed in accordance with applicable, relevant, and appropriate SCGs including NYSDEC DER-10. The SMP will include an EC/IC Plan that describes the procedures for the implementation and management of all EC/ICs at the Site; a Site Monitoring Plan that describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, including the existing cover and future ASD systems and all affected site media; an Excavation Work Plan to address any impacted soil/fill encountered during post-development intrusive and/or maintenance activities; an O&M Plan that describes the measures necessary to operate, monitor and maintain the mechanical components of the remedy selected for the Site; and a Site-wide inspection program to assure that the EC/ICs placed on the Site have not been altered and remain effective.

***Long-Term Effectiveness and Permanence*** – Removal of hydraulic lifts and associated impacted soil/fill (if any), removal of sub-basement water and impacted utility/sewer sediments, and maintenance of the existing cover systems will prevent direct contact with soil/fill exceeding RRSCOs. Groundwater extraction and treatment will effectively and permanently reduce contaminant concentrations on-site and prevent the future potential for migrating off-site. Installation of an ASD system within the existing buildings will mitigate potential on-site VOC vapor intrusion concerns. An SMP will address any impacted soil/fill encountered during future Site intrusive/maintenance activities, and provides a mechanism to assure that the EC/ICs placed on the Site have not been altered

and remain effective. Furthermore, an Environmental Easement for the Site will be filed with Erie County, which will limit future Site use to restricted residential uses, restrict groundwater use, and reference the Department-approved SMP. As such, this alternative will provide long-term effectiveness and permanence.

***Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment*** – This alternative will reduce the toxicity, mobility, and volume of COCs significantly and permanently through removal of hydraulic lifts and associated impacted soil/fill (if any), removal of sub-basement water and impacted utility/sewer sediments and groundwater treatment. Maintenance of the existing cover system will prevent direct contact with soil/fill exceeding RRSCOs. Extraction and treatment of groundwater will reduce the toxicity, mobility, and volume of the contaminant plume. Installation of an ASD system within the existing buildings will mitigate potential on-site VOC vapor intrusion concerns. The SMP will include an Excavation Work Plan to address any impacted soil/fill encountered during future Site intrusive/maintenance activities and a Site-wide inspection program to assure that the EC/ICs placed on the Site have not been altered and remain effective. Accordingly, this alternative satisfies this criterion.

***Short-Term Impacts and Effectiveness*** – The short-term adverse impacts and risks to the community, workers, and environment will be controlled during implementation of the remedy. During intrusive remedial activities, including hydraulic lifts, groundwater extraction well installation, and soil/fill excavation, backfilling, and handling of contaminated soil/fill, could potentially cause adverse short-term effects. Community air monitoring for vapors, dust particulates, and odors will be performed during intrusive activities to assure conformance with community air monitoring action levels. The potential for chemical exposure and physical injury are reduced through safe work practices; proper personal protection equipment (PPE); environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. The planned remedial activities will be completed within one construction season and performed in accordance with a Department-approved Work Plan, including a HASP and CAMP. This alternative achieves the RAOs for the Site.

**Implementability** – No action-specific administrative implementability issues are associated with the Restricted Residential Use (Track 4) Groundwater Extraction and Treatment Cleanup alternative. There will be technical issues associated with this alternative, similar to those identified during the RI, due to the building construction (i.e., ceiling height, door way access, and basement elevation). The ceiling heights and door way access will make utilization of traditional rotary drilling to properly install extraction wells difficult and unfeasible in some areas of the building which would need to be accessed. If proper extraction wells can be installed using alternative methods, sewer tie-ins will be challenging as the basement is 8 feet below exterior grade, groundwater below the lower basement elevation is approximately 2 feet below the basement floor and use of interior sewer connections would require a significant amount of concrete work.

Additionally, the redevelopment plans for the basement areas where groundwater extraction would be utilized is proposed to be used as a parking garage. The number of potential parking spots are limited by building layout and interior column locations. The installation of mechanical equipment associated with the extraction and treatment system would reduce the number of available parking spots.

**Cost** – The capital cost of implementing a Restricted Residential Use (Track 4) alternative is estimated at \$875,000. The annual O&M costs (which include sampling and reporting) are estimated at \$44,000 and has a present worth of \$725,000 assuming 30-years of operation. The present worth of this alternative assuming 30-years of operation is approximately \$1.6 million. Table 11 presents the capital and O&M cost estimate.

**Community Acceptance** – Community acceptance will be evaluated based on comments received from the public in response to Fact Sheets and other planned citizen participation activities.

#### **7.7.4 Alternative 4 – Restricted Residential Use (Track 4) Cleanup with In-Situ Groundwater Treatment**

Under Alternative 4, the Site would be cleaned up to facilitate the reasonably anticipated restricted residential use including:

- Treating on-site groundwater in-situ.

- Removing hydraulic lift infrastructure and any associated impacted soil/fill.
- Managing impacted water during remedial activities and hydraulic lift removal.
- Pumping sub-basement water with on-site treatment, if required by BSA, prior to discharging to sanitary sewer.
- Cleaning accessible utility and/or sewer services with evidence of potential impacts.
- Removing and properly disposing off-site miscellaneous abandoned regulated waste materials; and abating building components for lead, asbestos, oil staining, PCBs, etc. as required during redevelopment. Building surfaces and features planned to remain with evidence of impacts from historic operations will be addressed (e.g., encapsulated or sealed) consistent with a Restricted Residential Use scenario.
- Engineering Controls:
  - Maintaining existing cover system consisting of the building foundations and asphalt on former Burton Street. Building foundations or asphalt cover removed for future development must be replaced by 6 inches of concrete or asphalt (including sub-base material), or a minimum of two feet of clean soil/gravel meeting RRSCOs.
  - Installing an ASD system within the existing buildings.
- Institutional Controls:
  - Implementing an SMP including an Environmental Easement, EC/IC Plan, Site Monitoring Plan, Excavation Work Plan, O&M Plan, Site use limitations, and groundwater use restrictions.

Specific details of the remediation will be provided in the Remedial Action Work Plan (RAWP) and submitted to the Department for review and approval.

***Overall Protection of Public Health and the Environment*** – This alternative meets NYSDEC requirements for a Track 4 cleanup under the BCP regulations and is protective of public health and the environment. The RAOs for the Site would be satisfied through the planned extent of remedial activities listed above including hydraulic lift removal, limited soil/fill removal (if encountered); in-situ groundwater treatment; removing sub-basement water; cleaning utility/sewer features; installation of an ASD system in the existing building to mitigate potential VOC vapor intrusion concerns; maintaining the existing cover systems; and, the use of ICs to prevent potential future exposure and limit the

future use to restricted residential purposes. Groundwater quality will be monitored over time in accordance with the SMP. Accordingly, the Restricted Residential (Track 4) Use Cleanup alternative is protective of public health and fully satisfies the soil, groundwater, and soil vapor RAOs.

***Compliance with SCGs*** – The planned remedial activities will be performed in accordance with applicable, relevant, and appropriate SCGs including NYSDEC DER-10. The SMP will include an EC/IC Plan that describes the procedures for the implementation and management of all EC/ICs at the Site; a Site Monitoring Plan that describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, including the existing cover and future ASD systems and all affected site media; an Excavation Work Plan to address any impacted soil/fill encountered during post-development intrusive and/or maintenance activities; an O&M Plan that describes the measures necessary to operate, monitor and maintain the mechanical components of the remedy selected for the Site; and a Site-wide inspection program to assure that the EC/ICs placed on the Site have not been altered and remain effective.

***Long-Term Effectiveness and Permanence*** – Removal of hydraulic lifts and associated impacted soil/fill (if any), removal of sub-basement water and impacted utility/sewer sediments, and maintenance of the existing cover systems will prevent direct contact with soil/fill exceeding RRSCOs. In-situ groundwater treatment will effectively and permanently reduce contaminant concentrations on-site and migrating off-site. Installation of an ASD system within the existing buildings will mitigate potential on-site VOC vapor intrusion concerns. An SMP will address any impacted soil/fill encountered during future Site intrusive/maintenance activities, and provides a mechanism to assure that the EC/ICs placed on the Site have not been altered and remain effective. Furthermore, an Environmental Easement for the Site will be filed with Erie County, which will limit future Site use to restricted residential uses, restrict groundwater use, and reference the Department-approved SMP. As such, this alternative will provide long-term effectiveness and permanence.

***Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment*** – This alternative will reduce the toxicity, mobility, and volume of COCs

significantly and permanently through removal of hydraulic lifts and associated impacted soil/fill (if any), removal of sub-basement water and impacted utility/sewer sediments and groundwater treatment. Maintenance of the existing cover system will prevent direct contact with soil/fill exceeding RRSCOs. Treatment of groundwater will reduce the toxicity, mobility, and volume of the contaminant plume. Installation of an ASD system within the existing buildings will mitigate potential on-site VOC vapor intrusion concerns. The SMP will include an Excavation Work Plan to address any impacted soil/fill encountered during future Site intrusive/maintenance activities and a Site-wide inspection program to assure that the EC/ICs placed on the Site have not been altered and remain effective. Accordingly, this alternative satisfies this criterion.

***Short-Term Impacts and Effectiveness*** – The short-term adverse impacts and risks to the community, workers, and environment will be controlled during implementation of the remedy. During intrusive remedial activities, including hydraulic lift and soil/fill excavation, backfilling, and handling of contaminated soil/fill, could potentially cause adverse short-term effects. Community air monitoring for vapors, dust particulates, and odors will be performed during intrusive activities to assure conformance with community air monitoring action levels. The potential for chemical exposure and physical injury are reduced through safe work practices; proper personal protection equipment (PPE); environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. The planned remedial activities will be completed within one construction season and performed in accordance with a Department-approved Work Plan, including a HASP and CAMP. This alternative achieves the RAOs for the Site.

***Implementability*** – No technical or action-specific administrative implementability issues are associated with the Restricted Residential Use (Track 4) Cleanup alternative.

***Cost*** – The capital cost of implementing a Restricted Residential Use (Track 4) with In-situ Groundwater Treatment alternative is estimated at \$764,000. The annual sampling and reporting costs are estimated at \$8,000 per year with a present worth of \$172,000 assuming 30-years of reporting. The present worth of this alternative assuming 30-years of required sampling and reporting is approximately \$958,000. Table 12 presents the capital and O&M cost estimate.



**Community Acceptance** – Community acceptance will be evaluated based on comments received from the public in response to Fact Sheets and other planned citizen participation activities.

## 7.8 Comparison of Remedial Alternatives

The previous sections describe remedial alternatives for the Former Trico Plant and evaluate these alternatives against the screening criteria. Table 13 provides a comparison of the alternatives by media to identify remedial measures that will achieve the RAOs for the Site.

## 7.9 Recommended Remedial Alternative

Based on the alternatives analysis evaluation, *Alternative 4 – Restricted Residential Use (Track 4) Cleanup with In-situ Groundwater Treatment* is the recommended final remedial approach for the Former Trico Plant. This alternative is fully protective of public health and the environment; significantly less disruptive to the community; consistent with current and future land use; and represents a more cost-effective approach than Alternative 2 while fully satisfying the RAOs. The recommended remedial alternative would involve:

- Treating on-site groundwater in-situ.
- Removing hydraulic lift infrastructure and any associated impacted soil/fill.
- Managing impacted water during remedial activities and hydraulic lift removal.
- Pumping sub-basement water with on-site treatment, if required by BSA, prior to discharging to sanitary sewer.
- Cleaning accessible utility and/or sewer services with evidence of potential impacts.
- Removing and properly disposing off-site miscellaneous abandoned regulated waste materials; and abating building components for lead, asbestos, oil staining, PCBs, etc. as required during redevelopment. Building surfaces and features planned to remain with evidence of impacts from historic operations will be addressed (e.g., encapsulated or sealed) consistent with a Restricted Residential Use scenario.
- Engineering Controls:

- Maintain existing cover system consisting of the building foundations and asphalt on former Burton Street. Building foundations removed for future development must be replaced by 6 inches of concrete or asphalt (including sub-base material), or a minimum of two feet of clean soil/gravel meeting RRSCOs.
- Installing an ASD system within the existing buildings.
- Institutional Controls:
  - Implementing an SMP including an Environmental Easement, EC/IC Plan, Site Monitoring Plan, Excavation Work Plan, O&M Plan, Site use limitations, and groundwater use restrictions.

This remedy is fully protective of public health and the environment; is advantageous over other remedies when evaluated against the remedy selection criteria; and fully satisfies the RAOs for the Site. The components and details of the remaining tasks will be more fully described in an RAWP.

## 8.0 POST-REMEDIAL REQUIREMENTS

### 8.1 Final Engineering Report

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

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

### 8.2 Site Management Plan

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

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

### ***8.2.1 Engineering and Institutional Control Plan***

An institutional control in the form of an Environmental Easement will be necessary to limit future use of the Site to restricted residential applications and prevent groundwater use for potable purposes or as industrial process water without prior approval from NYSDOH or an authorized county health department.

The Engineering and Institutional Control (EC/IC) Plan will include a complete description of all institutional and/or engineering controls employed at the Site, including the mechanisms that will be used to continually implement, maintain, monitor, and enforce such controls. The EC/IC Plan will include:

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

### ***8.2.2 Site Monitoring Plan***

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

- Sampling and analysis of all appropriate media (e.g., groundwater).
- Assessing compliance with applicable NYSDEC SCGs, particularly ambient groundwater standards and Part 375 RRSCOs for soil.
- Assessing achievement of the remedial performance criteria.

- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment.
- Preparing the necessary reports for the various monitoring activities.

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

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

Quarterly groundwater monitoring to assess overall reduction in contamination on-site will be conducted for the first two years. The frequency thereafter will be discussed with the NYSDEC. Trends in contaminant levels in groundwater in the affected areas will be evaluated to determine if the remedy continues to be effective in achieving remedial goals.

### ***8.2.3 Operation and Maintenance Plan***

An Operation & Maintenance (O&M) Plan governing maintenance of the cover and ASD systems will:

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

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

Site-wide inspections will be conducted annually or as otherwise approved by the NYSDEC. All applicable inspection forms and other records, including all media sampling data and system maintenance reports, generated for the Site during the reporting period will be provided in electronic format in a Periodic Review Report (PRR).

The PRR will be submitted to the NYSDEC annually (or as otherwise approved) beginning 18 months after the Certificate of Completion or equivalent document is issued. The PRR will be prepared in accordance with NYSDEC DER-10 and submitted within 45 days of the end of each certification period. The PRR will include:

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

- Recommendations regarding any necessary changes to the remedy and/or Site Monitoring Plan.
- The overall performance and effectiveness of the remedy.

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

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

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

## 9.0 RI/AA SUMMARY AND CONCLUSIONS

Based on the data and analyses presented in the preceding sections, we offer the following summary and conclusions:

- Based on the RI soil/fill data, no VOCs or SVOCs were detected above RRSCOs. There were cVOCs detections in the former truck repair area that slightly exceeded their respective PGWSCOs. Two sample locations from the Phase II investigation had slightly elevated SVOCs above RRSCOs. No PCBs, pesticides, or herbicides were detected above MDLs during the RI; however, Phase II sample location SB-8 had a PCB concentration slightly above its RRSCO. Arsenic was the only metal analyte detected during the RI slightly above its respective RRSCO and at only one location. Arsenic, mercury, and barium were the only metal analytes detected slightly above their respective RRSCOs during the Phase II investigation.
- Based on the groundwater data, SVOCs, metals, PCBs, pesticides, or herbicides are not considered to be COCs in Site groundwater. Two SVOCs were detected at one location at concentrations above their respective GWQS; however, these detections are relatively low and not considered significant. Certain metals were detected slightly above GWQS; however, the metals were primarily limited to naturally occurring minerals with the exception of iron, which is a common analyte found in groundwater in urban settings; and magnesium and sodium are common to road salt used on the streets surrounding the Site. Furthermore, municipally supplied potable water is available, and on-site groundwater is not used for potable or other purposes. cVOCs were detected at four locations in the central portion of the Site and are likely the cause of SVI. Concentrations of Total cVOCs in groundwater at RIMW-4, RIMW-7 and RIMW-9 do not exceed 500 ug/L at any one particular location. The Site and surrounding area are serviced by a municipal drinking water system.
- VOCs were not detected above their respective GWQS in the two deep off-site wells installed at NYSDEC's request. Deep and/or off-site groundwater does not appear to be a concern.
- Based on the NYSDOH SVI Guidance decision matrices the building will require mitigation due to elevated TCE concentrations in sub-slab and indoor air samples.
- The results of the basement surface water sampling indicate that low levels of metals and pesticides are present in the water. No VOCs, PCBs, or herbicides were detected above MDLs.
- Given the nature and extent of contamination present in shallow soil/fill and groundwater, and the long history of commercial/industrial use, it is not



reasonably practicable to remediate the property to pre-release (Unrestricted Use) or Track 2 Restricted-Residential Use conditions.

Based on the Alternatives Analysis, a Track 4 RRSCO cleanup with In-Situ Groundwater Treatment would achieve the Sites RAOs and is the selected remedy (see Table 13). Components of the selected remedy include:

- Treating on-site groundwater in-situ.
- Removing hydraulic lift infrastructure and any associated impacted soil/fill followed by collecting post-excavation confirmatory samples in accordance with DER-10.
- Managing impacted water during remedial activities and hydraulic lift removal.
- Pumping sub-basement water with on-site treatment, if required by BSA, prior to discharging to sanitary sewer.
- Cleaning accessible utility and/or sewer services with evidence of potential impacts.
- Removing and properly disposing off-site miscellaneous abandoned regulated waste materials; and abating building components for lead, asbestos, oil staining, PCBs, etc. as required during redevelopment. Building surfaces and features planned to remain with evidence of impacts from historic operations will be addressed (e.g., encapsulated or sealed) consistent with a Restricted Residential Use scenario.
- Installing an ASD system within the existing buildings.
- Maintaining existing cover system in accordance with 6NYCRR Part 375 and NYSDEC DER-10 guidelines. The cover system includes building foundations and asphalt on former Burton Street. Building foundations removed for future development must be replaced by six inches of concrete or asphalt (including sub-base material), or a minimum of two feet of clean soil/gravel meeting the import criteria for restricted-residential use sites, in accordance with Appendix 5 of DER-10.
- Implementing the Site Management Plan (SMP), which will include:
  - **Engineering Controls (ECs)** consisting of the existing building foundations and asphalt on former Burton Street to eliminate potential exposure pathways to contaminants and building ASD system for SVI control.
  - **Institutional Controls (IC)** to restrict groundwater use on-site and limit Site uses to restricted-residential use.
  - **Operation and Maintenance Plan** for the ASD System.

- **Excavation Work Plan** to assure that future intrusive activities and soil/fill handling at the Site is completed in a safe and environmentally responsible manner.
- **Site Monitoring Plan** that includes provisions for a Site-wide inspection program to assure that the EC/ICs have not been altered and remain effective.
- **Environmental Easement** filed with Erie County.

## 10.0 REFERENCES

1. TurnKey Environmental Restoration, LLC. *Remedial Investigation & Alternatives Analysis Work Plan, Former Trico Plant, 791 Washington Street, Buffalo, New York*. August 2013. Revised October 2013.
2. New York State Department of Environmental Conservation. *DER-10; Technical Guidance for Site Investigation and Remediation*. May 2010.
3. New York State Department of Health. *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*. October 2006.
4. United States Department of Agriculture (USDA), Soil Conservation Service. *Soil Survey of Erie County, New York*. December 1986.
5. Edward Buehler and Irving Tesmer. *Geologic Map of Erie County, NY, Bedrock Geology*. 1963.
6. U.S. Environmental Protection Agency. *Requirements for Quality Assurance Project Plans for Environmental Data Operations (EPA QA/R-5)*. October 1998.
7. U.S. Environmental Protection Agency. *National Functional Guidelines for Organic Data Review (EPA-540/R-94-012)*. 1994a.
8. U.S. Environmental Protection Agency. *National Functional Guidelines for Inorganic Data Review (EPA-540/R-94-013)*. 1994b
9. Watts Architecture & Engineering, P.C. *Targeted Phase II Environmental Site Investigation Sampling Report for The Century Centre I, Six-Story Trico Production Facility, 791 Washington Street, Buffalo, New York*. May 2007.

# TABLES

SOIL PROBE & SAMPLE ELEVATIONS

REMEDIAL INVESTIGATION / ALTERNATIVE ANALYSIS REPORT

FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK

Location	Date Installed	Ground Elevation (ft) <sup>1,2</sup>	Total Depth (fbgs)	Bottom Depth Elevation (ft)	Soil/Fill Sample Interval (fbgs)	Soil/Fill Sample Interval (ft) <sup>1,2</sup>
RISB-12	05/23/2016	503.7	16.0	487.7	2 to 4	499.7 to 501.7
RISB-13	05/23/2016	503.7	4.0	499.7	1 to 3	500.7 to 502.7
RISB-14	05/23/2016	503.7	11.0	492.7	NS	NS
RISB-15	05/24/2016	503.1	16.0	487.1	6 to 8	495.1 to 497.1
RISB-16	05/26/2016	503.1	16.0	487.1	0 to 5	498.1 to 503.1
RISB-17	05/24/2016	497.3	16.0	481.3	4 to 6	491.3 to 493.3
RISB-18	05/24/2016	497.3	16.0	481.3	2 to 4	493.3 to 495.3
RISB-19	05/24/2016	497.3	16.0	481.3	2 to 4	493.3 to 495.3
RISB-20	05/24/2016	497.3	16.0	481.3	4 to 6	491.3 to 493.3
RISB-21	05/24/2016	497.3	16.0	481.3	6 to 8	489.3 to 491.3
RISB-22	05/24/2016	497.3	16.0	481.3	8 to 10	487.3 to 489.3
RISB-23	05/24/2016	491.5	16.0	475.5	2 to 4	487.5 to 489.5
RISB-24	05/24/2016	491.5	16.0	475.5	4 to 6	485.5 to 487.5
RISB-25	11/14/2016	491.3	12.0	479.3	NS	NS
RISB-26	11/14/2016	491.3	12.0	479.3	NS	NS
RISB-27	11/14/2016	497.3	12.0	485.3	7 to 8	489.3 to 490.3
					11 to 12	485.3 to 486.3
RISB-28	11/14/2016	497.3	12.0	485.3	4 to 6	491.3 to 493.3
RISB-29	11/14/2016	497.3	12.0	485.3	NS	NS
RISB-30	11/14/2016	497.3	12.0	485.3	NS	NS
RISB-31	11/14/2016	497.3	12.0	485.3	NS	NS
RISB-32	11/14/2016	497.3	12.0	485.3	7 to 8	489.3 to 490.3
RISB-33	11/14/2016	497.3	12.0	485.3	NS	NS
RISB-34	11/14/2016	497.3	12.0	485.3	NS	NS
RISB-35	11/14/2016	497.3	12.0	485.3	5 to 7	490.3 to 492.3
RIMW-1	05/23/2016	503.12	16.0	487.12	NS	NS
RIMW-2	05/23/2016	503.74	16.0	487.74	0 to 2	501.74 to 503.74
					8 to 10	493.74 to 495.74
RIMW-3	05/25/2016	497.26	16.0	481.26	0 to 2	495.26 to 497.26
RIMW-4	05/25/2016	491.46	16.0	475.46	0 to 2	489.46 to 491.46
RIMW-5	05/26/2016	491.54	16.0	475.54	6 to 8	483.54 to 485.54
RIMW-6	05/25/2016	491.39	16.0	475.39	4 to 7	484.39 to 487.39
RIMW-7	05/26/2016	491.30	16.0	475.30	2 to 4	487.30 to 489.30
RIMW-8	05/26/2016	491.51	16.0	475.51	0 to 2	498.51 to 491.51
RIMW-9	05/26/2016	497.26	16.0	481.26	0 to 2	495.26 to 497.26
RIMW-10	05/26/2016	497.34	16.0	481.34	2 to 4	493.34 to 495.34
RIMW-11	11/14/2016	501.3	36.0	465.30	NS	NS
RIMW-12	11/21/2016	499.4	40.0	459.40	NS	NS

Abbreviations:

- NS = not sampled.
- ft = feet.
- fbgs = feet below ground surface
- fbTOR = feet below top of riser

Notes:

1. Elevations are based on an assumed vertical elevation established using an arbitrary benchmark (fire hydrant at corner of Washington St and Goodell).
2. Elevations were estimated based on survey measurements from nearby monitoring wells

**TABLE 1B**  
**MONITORING WELL CONSTRUCTION DETAILS**  
**REMEDIAL INVESTIGATION / ALTERNATIVE ANALYSIS REPORT**

**FORMER TRICO PLANT**  
**791 WASHINGTON STREET**  
**BUFFALO, NEW YORK**

LOCATION		Elevations						Well Screen Data		
Number	Date Installed	TOR Elevation (ft) <sup>1</sup>	Top of Road Box Elevation (ft) <sup>1,2</sup>	Total Depth (fbgs)	Bottom of Well Elevation (ft)	Water Level Depth 6/10/2016	Water Level Elevation 6/10/2016	Well Diameter (inches)	Length of Well Screen (feet)	Well Screen Interval Elevation (ft) <sup>1,2</sup>
RIMW-1	05/23/2016	502.82	503.12	16.0	487.12	8.34	494.48	1	10	487.12 to 497.12
RIMW-2	05/23/2016	503.09	503.74	16.0	487.74	11.75	491.34	2	10	487.74 to 497.74
RIMW-3	05/25/2016	497.06	497.26	16.0	481.26	3.61	493.45	1	10	481.26 to 491.26
RIMW-4	05/25/2016	491.15	491.46	16.0	475.46	1.65	489.50	1	10	475.46 to 485.46
RIMW-5	05/26/2016	491.33	491.54	16.0	475.54	4.22	487.11	1	10	475.54 to 485.54
RIMW-6	05/25/2016	490.99	491.39	16.0	475.39	2.28	488.71	2	10	475.39 to 485.39
RIMW-7	05/26/2016	490.89	491.30	16.0	475.30	1.87	489.02	2	10	475.30 to 485.30
RIMW-8	05/26/2016	491.19	491.51	16.0	475.51	5.58	485.61	2	10	475.51 to 485.51
RIMW-9	05/26/2016	496.73	497.26	16.0	481.26	8.85	487.88	2	10	481.26 to 491.26
RIMW-10	05/26/2016	497.02	497.34	16.0	481.34	6.65	490.37	2	10	481.34 to 491.34
RIMW-11	11/14/2016	501.0 <sup>2</sup>	501.30	36.0	465.30	NI	NA	2	8	457.3 to 465.3
RIMW-12	11/21/2016	499.1 <sup>2</sup>	499.40	40.0	459.40	NI	NA	2	8	451.4 to 459.4

**Abbreviations:**

- ft = feet.
- fmsl = feet above mean sea level
- fbgs = feet below ground surface
- NI = not installed
- NA = not applicable

**Notes:**

1. Elevations are based on an assumed vertical elevation established using an arbitrary benchmark (fire hydrant at corner of Washington St and Goodell).
2. Elevations were estimated based on survey measurements from nearby monitoring wells and assuming relatively level floors in the area.

SUMMARY OF HISTORIC AND REMEDIAL INVESTIGATION SAMPLING AND ANALYSIS PROGRAM

REMEDIAL INVESTIGATION / ALTERNATIVE ANALYSIS REPORT

FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK

Sample Identifier	Depth Sampled/ Screened (fbgs)	Analysis										Date Sampled
		PAHs	RCRA 8 Metals	TCL VOCs	TCL SVOCs	PCBs	Pesticides	Herbicides	TAL Metals & Cyanide	TAL Metals - Dissolved	VOCs via TO-15	
<b>2013 LIMITED SUBSURFACE INVESTIGATION SAMPLES</b>												
<b>Soil/Fill Samples</b>												
SB-1	1 - 2	X	X			X						07/01/2013
SB-2	1 - 2	X	X			X						07/01/2013
SB-3	0.5 - 1	X	X			X						07/01/2013
SB-4	0.5 - 1	X	X			X						07/01/2013
SB-5	0.5 - 1	X	X			X						07/01/2013
SB-6	0.5 - 1	X	X			X						07/01/2013
SB-7	1 - 1.5	X	X			X						07/01/2013
SB-8	1 - 1.5	X	X			X						07/01/2013
SB-9	1 - 1.5	X	X			X						07/01/2013
SB-10	1 - 2	X	X			X						07/01/2013
SB-11	1 - 2	X	X			X						07/01/2013
<b>REMEDIAL INVESTIGATION SAMPLES</b>												
<b>Air &amp; Sub-Slab Vapor</b>												
SSV-1	0.1										X	05/14/2016
SSV-2	0.1										X	05/14/2016
SSV-3	0.1										X	05/14/2016
SSV-4	0.1										X	05/14/2016
SSV-5	0.1										X	05/14/2016
SSV-6	0.1										X	05/14/2016
SSV-7	0.1										X	05/14/2016
IA-1	NA										X	05/14/2016
IA-2	NA										X	05/14/2016
OA-1	NA										X	05/14/2016
<b>Subsurface Soil/Fill</b>												
RISB-12	2 - 4				X	X	X	X	X			05/23/2016
RISB-13	1 - 3				X	X			X			05/23/2016
RISB-15	6 - 8				X	X			X			05/23/2016
RISB-16	0 - 5				X	X			X			05/23/2016
RISB-17	4 - 6				X	X	X	X	X			05/24/2016
RISB-18	2 - 4			X	X	X			X			05/24/2016
RISB-19	2 - 4			X	X	X	X	X	X			05/24/2016
RISB-20	4 - 6				X	X			X			05/24/2016
RISB-21	6 - 8				X	X			X			05/24/2016
RISB-22	8 - 10				X	X			X			05/24/2016
RISB-23	2 - 4				X	X			X			05/24/2016
RISB-24	4 - 6				X	X	X	X	X			05/24/2016
RIMW-2	0 - 2			X								05/23/2016
RIMW-2	8 - 10				X	X	X	X	X			05/23/2016
RIMW-3	0 - 2				X	X			X			05/25/2016
RIMW-4	0 - 2			X	X	X			X			05/25/2016
RIMW-5	6 - 8				X	X			X			05/26/2016
RIMW-6	4 - 7				X	X			X			05/25/2016
RIMW-7	2 - 4				X	X			X			05/26/2016
RIMW-8	0 - 2				X	X			X			05/26/2016
RIMW-9	0-2				X	X			X			05/26/2016
RIMW-10	2 - 4				X	X			X			05/26/2016
RISB-27	7 - 8			X								11/15/2016
RISB-27	11 - 12			X								11/15/2016
RISB-28	4 - 6			X								11/15/2016
RISB-32	7 - 8			X								11/15/2016
RISB-35	5 - 7			X								11/15/2016
<b>Groundwater</b>												
RI MW-1	6 - 16			X	X	X	X	X	X			06/14/2016
RI MW-2	6 - 16			X	X	X	X	X	X	X		06/14/2016
RI MW-3	6 - 16			X	X	X	X	X	X	X		06/14/2016
RI MW-4	6 - 16			X	X	X	X	X	X	X		06/14/2016
RI MW-5	6 - 16			X	X	X	X	X	X			06/14/2016
RI MW-6	6 - 16			X	X	X	X	X	X	X		06/14/2016
RI MW-7	6 - 16			X	X	X	X	X	X	X		06/14/2016
RI MW-8	6 - 16			X	X	X	X	X	X			06/14/2016
RI MW-9	6 - 16			X	X	X	X	X	X			06/14/2016
RIMW-9	6 - 16			X								11/28/2016
RIMW-9	6 - 16			X								12/09/2016
RI MW-10	6 - 16			X	X	X	X	X	X			06/14/2016
RIMW-11	28 - 36			X								11/28/2016
RIMW-12	30 - 38			X								11/28/2016
<b>Sub-Basement Water</b>												
Basement Surface Water Sample	--			X	X	X	X	X	X			05/20/2016
<b>Drainage Structure Solids</b>												
S-12	--			X								11/15/2016
S-14	--			X								11/15/2016
S-15	--			X								11/15/2016

**Notes:**

1. Sub-slab samples listed as SSV-1 through SSV-7 were identified in the laboratory report as SV-1 through SV-7.
2. For sample depths noted as 0-2 or 0-5 fbgs, soil samples were collected from beneath the concrete or asphalt.

**Definitions:**

fbgs = feet below ground surface  
 PAHs = polycyclic aromatic hydrocarbons  
 RCRA = Resource Conservation and Recovery Act  
 TCL VOCs = Target Compound List Volatile Organic Compounds  
 TCL SVOCs = Target Compound List Volatile Organic Compounds

PCBs = Polychlorinated biphenyls  
 TAL = Target Analyte List  
 IA = Indoor Air  
 OA = Outdoor Air  
 SSV = Sub-slab soil vapor

TABLE 3A

SUMMARY OF 2013 LIMITED SUBSURFACE SOIL/FILL ANALYTICAL RESULTS

FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK

Parameter <sup>1</sup>	Unrestricted Use SCOs <sup>2</sup>	Restricted Residential Use SCOs <sup>2</sup>	Sample Locations										
			SB-1 (1-2')	SB-2 (1-2')	SB-3 (0.5-1')	SB-4 (0.5-1')	SB-5	SB-6 (0.5-1')	SB-7 (1-1.5')	SB-8 (1-1.5')	SB-9 (1-1.5')	SB-10 (1-2')	SB-11 (1-2')
			7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013
<b>Semi-Volatile Organic Compounds (SVOCs) - mg/Kg<sup>3</sup></b>													
2-Methylnaphthalene	--	--	0.0062 J	0.0084	0.029	0.0037 J	ND	0.046	0.061	0.012 J	0.0055 J	0.19	0.037
Acenaphthene	<b>20</b>	<b>100</b>	0.0049 J	0.0023 J	ND	ND	ND	0.043	0.025	0.015 J	ND	0.58	0.1
Acenaphthylene	<b>100</b>	<b>100</b>	ND	ND	0.0022 J	ND	ND	ND	0.0055 J	0.23	ND	0.074 J	0.0061 J
Anthracene	<b>100</b>	<b>100</b>	0.0091	0.0054 J	0.0051 J	ND	0.0054 J	0.084	0.048	0.24	0.004 J	1.5	0.27
Benzo(a)anthracene	<b>1</b>	<b>1</b>	0.036	0.017	0.024	ND	0.016	0.22	0.15	0.77	0.013	<b>2.6</b>	0.41
Benzo(a)pyrene	<b>1</b>	<b>1</b>	0.028	0.013	0.019	ND	0.016	0.17	0.12	0.59	0.011	<b>1.8</b>	0.29
Benzo(b)fluoranthene	<b>1</b>	<b>1</b>	0.062	0.048	0.03	ND	0.021	0.24	0.22	1	0.017	<b>2.6</b>	0.38
Benzo(g,h,i)perylene	<b>100</b>	<b>100</b>	0.013	0.0079 J	0.0078	ND	0.011	0.083	0.1	0.28	0.0051 J	0.9	0.13
Benzo(k)fluoranthene	<b>0.8</b>	<b>3.9</b>	0.02	0.013	0.011	ND	0.0078 J	0.1	0.073	0.4	0.006 J	<b>0.97</b>	0.14
Chrysene	<b>1</b>	<b>3.9</b>	0.042	0.031	0.027	ND	0.022	0.2	0.16	0.69	0.015	<b>2.1</b>	0.31
Dibenzo(a,h)anthracene	<b>0.33</b>	<b>0.33</b>	ND	ND	0.0064 J	ND	0.0059 J	ND	0.03	0.084	ND	0.28	<b>0.46</b>
Fluoranthene	<b>100</b>	<b>100</b>	0.081	0.065	0.037	ND	0.037	0.57	0.28	2.1	0.03	6	0.84
Fluorene	<b>30</b>	<b>100</b>	0.0042 J	0.0029 J	ND	ND	ND	0.053	0.027	0.057	ND	0.51	0.1
Indeno(1,2,3-cd)pyrene	<b>0.5</b>	<b>0.5</b>	0.019	0.013	0.013	ND	0.014	ND	0.1	0.37	0.0095	<b>1.1</b>	0.16
Naphthalene	<b>12</b>	<b>100</b>	0.0047 J	0.003 J	0.013	0.0026 J	ND	0.037	0.073	0.019 J	0.0036 J	0.25	0.046
Phenanthrene	<b>100</b>	<b>100</b>	0.048	0.03	0.035	ND	0.023	0.45	0.22	1	0.019	5.4	0.72
Pyrene	<b>100</b>	<b>100</b>	0.056	0.037	0.03	ND	0.032	ND	0.22	1.6	0.023	4.7	0.67
<b>Total PCBs - mg/Kg<sup>3</sup></b>													
Aroclor 1248			0.189	0.0852	ND	ND	ND	ND	0.232	1.02	ND	0.023 J	ND
Aroclor 1254			0.15	0.0482	ND	ND	ND	ND	ND	0.762	ND	ND	ND
Aroclor 1260			0.0531	0.0198 J	ND	ND	ND	ND	ND	0.68	ND	ND	ND
Total PCBs	<b>0.1</b>	<b>1</b>	<b>0.3921</b>	<b>0.1532</b>	0	0	0	0	<b>0.232</b>	<b>2.462</b>	0	0.023 J	0
<b>Total Metals - mg/Kg</b>													
Arsenic	<b>13</b>	<b>16</b>	<b>16</b>	<b>22</b>	2.5	3	2.8	2.5	9.4	2	1.2	2.4	1.9
Barium	<b>350</b>	<b>400</b>	200	69	26	35	80	70	73	<b>530</b>	28	57	42
Cadmium	<b>2.5</b>	<b>4.3</b>	0.82	0.55	0.29 J	0.36 J	0.6	0.38 J	0.37 J	<b>2.6</b>	0.32 J	0.4 J	0.31 J
Chromium	<b>30</b>	<b>180</b>	24	10	5.9	8	12	13	9.5	<b>110</b>	7.8	21	8.5
Lead	<b>63</b>	<b>400</b>	16	11	17	13	25	16	27	<b>160</b>	14	16	14
Selenium	<b>3.9</b>	<b>180</b>	0.68 J	1.1	0.58 J	ND	0.27 J	ND	0.33 J	0.4 J	0.36 J	ND	0.28 J
Silver	<b>2</b>	<b>180</b>	ND	ND	ND	ND	ND	ND	ND	0.65	ND	ND	ND
Mercury	<b>0.18</b>	<b>0.81</b>	<b>0.34</b>	ND	ND	ND	ND	ND	<b>1.4</b>	ND	ND	ND	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Part 375 Soil Cleanup Objectives (December 2006)
3. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparison to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.

"--" = Sample not analyzed for parameter or no SCO available for the parameter.

J = Estimated value; result is less than the sample quantitation limit but greater than zero.

<b>BOLD</b>	= Result exceeds Part 375 Unrestricted Use SCOs.
<b>BOLD</b>	= Result exceeds Part 375 Restricted Residential Use SCOs.





TABLE 3C

SUMMARY OF REMEDIAL INVESTIGATION DRAINAGE STRUCTURE ANALYTICAL RESULTS

REMEDIAL INVESTIGATION / ALTERNATIVE ANALYSIS REPORT

FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NY

PARAMETER <sup>1</sup>	Restricted Residential Use SCOs <sup>2</sup>	DRAINAGE STRUCTURE SAMPLE LOCATIONS		
		S-12	S-14	S-15
<b>Volatile Organic Compounds (VOCs) - mg/Kg<sup>3</sup></b>				
1,1,1-Trichloroethane	100	0.0052	ND	ND
1,1-Dichloroethane	26	ND	0.0012 J	ND
1,1-Dichloroethene	100	ND	0.00066 J	ND
1,2-Dichlorobenzene	100	ND	0.00064 J	ND
1,4-Dichlorobenzene	13	0.00072 J	0.00053 J	0.0005 J
2-Butanone (MEK)	100	ND	0.045	0.023 J
4-methyl-2-pentanone (MIBK)	--	ND	0.0029 J	0.0044 J
Acetone	100	ND	0.2	0.28 J
Benzene	4.8	ND	0.00072 J	0.0021 J
n-Butylbenzene	--	ND	0.001 J	ND
sec-Butylbenzene	100	ND	0.0012 J	ND
Chlorobenzene	100	ND	0.0082	ND
cis-1,2-Dichloroethene	100	ND	0.014	0.0012 J
Cyclohexane	--	ND	0.0031 J	0.0054 J
Ethylbenzene	41	ND	0.014	0.0011 J
Isopropylbenzene (Cumene)	--	ND	0.0061	0.00077 J
p-Isopropyltoluene	--	ND	0.0042	0.0023 J
n-Propylbenzene	100	ND	0.0024	0.001 J
1,3,5-Trimethylbenzene	52	ND	0.0062 J	0.0042 J
1,2,4-Trimethylbenzene	52	ND	0.017	0.0082 J
Methylcyclohexane	--	ND	0.027	0.0016 J
Tetrachloroethene	19	0.0015	0.00087 J	0.0019 J
Toluene	100	ND	0.086	0.0024 J
trans-1,2-Dichloroethene	100	ND	0.0023 J	ND
Trichloroethene	21	0.00079 J	0.16	0.0078 J
Vinyl chloride	0.9	ND	0.00044 J	ND
Total Xylenes	100	ND	0.098	0.0053 J

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Sample results were reported by the laboratory in ug/kg and converted to mg/kg.

Definitions:

- ND = Parameter not detected above laboratory detection limit.  
J = Estimated value; result is less than the sample quantitation limit but greater than zero.

**Bold** = Results exceed the Restricted Residential Soil Cleanup Objectives.



**TABLE 5**

**SUMMARY OF REMEDIAL INVESTIGATION SUB-BASEMENT WATER ANALYTICAL RESULTS**

**REMEDIAL INVESTIGATION / ALTERNATIVE ANALYSIS REPORT**

**FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK**

PARAMETER <sup>1</sup>	Basement Surface Water
	05/20/16
<b><i>Volatile Organic Compounds (VOCs) - ug/L</i></b>	
	ND
<b><i>Semi-Volatile Organic Compounds (SVOCs) - ug/L</i></b>	
	ND
<b><i>Total Metals - ug/L</i></b>	
Barium	0.01
Calcium	200
Iron	2.7
Magnesium	36.9
Manganese	0.42
Nickel	0.059
Potassium	80.8
Sodium	191
Zinc	0.045
<b><i>PCB (ug/L)</i></b>	
	ND
<b><i>Pesticides and Herbicides - ug/L</i></b>	
4,4'-DDD	0.08 J

**Notes:**

**Definitions:**

ND = Parameter not detected above laboratory detection limit.

"--" = No value available for the parameter; Parameter not analysed for.

B = Compound was found in the blank and the sample.

J = Estimated value; result is less than the reporting limit but greater than zero.



TABLE 6

SUMMARY OF REMEDIAL INVESTIGATION SOIL VAPOR INTRUSION AIR ANALYTICAL RESULTS

REMEDIAL INVESTIGATION / ALTERNATIVE ANALYSIS REPORT

FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK



PARAMETERS	Indoor Air IA-1	Indoor Air IA-2	Sub-Slab Vapor SSV-1	Sub-Slab Vapor SSV-2	Sub-Slab Vapor SSV-3	Sub-Slab Vapor SSV-4	Sub-Slab Vapor SSV-5	Sub-Slab Vapor SSV-6	Sub-Slab Vapor SSV-7	Outdoor Air OA-1
<b>Volatile Organic Compounds (VOCs) - micrograms per cubic meter (ug/m3)</b>										
1,1,1- TRICHLOROETHANE	0.26 J	ND	ND	ND	890	13	0.4 J	5.7	ND	ND
1,1- DICHLOROETHANE	ND	ND	ND	ND	290	0.9 J	ND	ND	ND	ND
1,2,4-TRIMETHYLBENZENE	0.25 J	0.32 J	0.3 J	0.52 J	ND	0.79 J	0.25 J	ND	0.36 J	0.31 J
1,2-DICHLOROETHENE, Total	0.22 J	6.3	ND	0.52 J	810	20	0.71 J	310	ND	ND
1,3-BUTADIENE	0.25 J	0.38 J	ND	ND	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	1.3	0.45 J	ND	ND	ND	ND	ND	ND	ND	ND
1,4-DIOXANE (P-DIOXANE)	ND	110	ND	ND	ND	ND	ND	ND	49	ND
2,2,4-TRIMETHYLPENTANE	0.33 J	0.37 J	ND	ND	ND	2.1	0.7 J	1.5 J	0.88 J	0.45 J
ACETONE	2.5 J	16	6.2 J	40	ND	12 J	12	14 J	140	6 J
BENZENE	1.4	2.3	0.63	1.7	ND	3.2	1 J	2.3 J	6.8	0.69
BROMODICHLOROMETHANE	ND	ND	0.32 J	1.9 J	ND	0.66 J	ND	ND	ND	ND
CARBON DISULFIDE	ND	0.93 J	0.48 J	0.88 J	ND	1.9 J	ND	ND	2 J	0.24 J
CARBON TETRACHLORIDE	0.5 J	0.46 J	0.26 J	0.78 J	ND	ND	0.27 J	ND	0.47 J	0.41 J
CHLOROETHANE	ND	0.68 J	ND	ND	ND	ND	ND	ND	0.55 J	ND
CHLOROFORM	ND	ND	12	93	160 J	17	ND	2.4 J	ND	ND
CHLOROMETHANE	0.93 J	1.4	0.2 J	ND	ND	ND	ND	ND	ND	1.1
CIS-1,2-DICHLOROETHENE	0.22 J	5.9	ND	0.5 J	730	18	0.71 J	220	ND	ND
CYCLOHEXANE	0.17 J	ND	0.35 J	4	ND	3.4	0.75	1.7 J	95	ND
DICHLORODIFLUOROMETHANE	2.7	2.5	2.5	3 J	ND	2.7 J	0.98 J	30	1.9 J	2.4 J
ETHYLBENZENE	0.22 J	0.3 J	0.21 J	0.39 J	ND	1 J	0.3 J	ND	0.45 J	0.3 J
FREON TF	0.65 J	0.58 J	0.58 J	0.87 J	ND	ND	ND	ND	ND	ND
ISOPROPYL ALCOHOL	ND	ND	ND	ND	ND	ND	2.5 J	ND	4.1 J	3.4 J
M,P-XYLENES	0.95 J	1.2 J	0.74 J	1.4 J	ND	3.8 J	1.1 J	2.2 J	1.3 J	1.1 J
METHYL BUTYL KETONE (2-HEXANONE)	ND	ND	ND	0.53 J	ND	ND	ND	ND	ND	ND
METHYL ETHYL KETONE (2-BUTANONE)	ND	1.4 J	1.5	3.8	ND	2.6 J	3	3.8 J	11	0.6 J
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ND	ND	ND	0.66 J	ND	ND	0.48 J	ND	2.3 J	ND
METHYLENE CHLORIDE	0.83 J	0.69 J	0.88 J	1.5 J	ND	ND	0.79 J	ND	1.3 J	0.83 J
NAPHTHALENE	ND	ND	ND	0.53 J	ND	ND	ND	ND	ND	ND
N-HEPTANE	0.19 J	ND	0.39 J	1.7	ND	4.2	1.2	2 J	42	0.25 J
N-HEXANE	0.57 J	0.85	0.84	3	ND	8	2.2	4.5	100	0.62 J
O-XYLENE (1,2-DIMETHYLBENZENE)	0.32 J	0.37 J	0.28 J	0.53 J	ND	1.2 J	0.34 J	0.77 J	0.46 J	0.4 J
STYRENE	ND	0.2 J	ND	ND	ND	ND	0.28 J	ND	ND	0.2 J
TETRACHLOROETHENE	0.16 J	0.24 J	1.5	2.4	ND	2.8	0.89 J	2.2 J	1.4 J	ND
TOLUENE	2.2	2.5	2.4	3.6	ND	8.8	4.5	4.6	9	2.1
TRANS-1,2-DICHLOROETHENE	ND	0.42 J	ND	ND	99 J	2.2	ND	90	ND	ND
TRICHLOROETHENE	1.4	35	1.5	260	19,000	390	9.4	610	5.9	0.23 J
TRICHLOROFLUOROMETHANE	1.6	1.3	1.6	2.1	ND	3	0.75 J	1.4 J	1.4 J	1.2
VINYL CHLORIDE	ND	0.089 J	ND	ND	ND	ND	ND	0.51 J	ND	ND
XYLENES, TOTAL	1.3 J	1.5 J	1 J	1.9 J	ND	5 J	1.4 J	3 J	1.8 J	1.5 J

Notes:

1. Only those parameters detected above the method detection limits, at a minimum of one location are presented in this table.
2. ND = compound concentration below reporting limit.
3. J = estimated concentrations; results is lees than reporting limit but greater than zero.
4. Sub-slab samples listed as SSV-1 through SSV-7 were identified in the laboratory report as SV-1 through SV-7.

TABLE 7

SUMMARY OF INDOOR AIR SAMPLING RESULTS VS NYSDOH INDOOR & OUTDOOR AIR CRITERIA

REMEDIAL INVESTIGATION / ALTERNATIVE ANALYSIS REPORT

FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK

PARAMETERS	NYSDOH Indoor 90th Percentile Comparison (ug/m3)	INDOOR AIR IA-1	INDOOR AIR IA-2	OUTDOOR AIR OA-1
1,1,1-TRICHLOROETHANE	3.1	0.26 J	ND	ND
1,1-DICHLOROETHANE	NV	ND	ND	ND
1,2,4-TRIMETHYLBENZENE	9.5	0.25 J	0.32 J	0.31 J
1,2-DICHLOROETHENE	NV	0.22 J	6.3	ND
1,3-BUTADIENE	NV	0.25 J	0.38 J	ND
1,4-DICHLOROBENZENE	1.3	1.3	0.45 J	ND
1,4-DIOXANE (P-DIOXANE)	NV	ND	110	ND
2,2,4-TRIMETHYLPENTANE	NV	0.33 J	0.37 J	0.45 J
ACETONE	110	2.5 J	16	6 J
BENZENE	15	1.4	2.3	0.69
BROMODICHLOROMETHANE	NV	ND	ND	ND
CARBON DISULFIDE	NV	ND	0.93 J	0.24 J
CARBON TETRACHLORIDE	0.81	0.5 J	0.46 J	0.41 J
CHLOROETHANE	<0.25	ND	0.68 J	ND
CHLOROFORM	1.4	ND	ND	ND
CHLOROMETHANE	3.3	0.93 J	1.4	1.1
CIS-1,2-DICHLOROETHENE	<0.25	0.22 J	5.9	ND
CYCLOHEXANE	8.1	0.17 J	ND	ND
DICHLORODIFLUOROMETHANE	15	2.7	2.5	2.4 J
ETHYLBENZENE	7.4	0.22 J	0.3 J	0.3 J
FREON TF	NV	0.65 J	0.58 J	ND
ISOPROPYL ALCOHOL	NV	ND	ND	3.4 J
M,P-XYLENES	12	0.95 J	1.2 J	1.1 J
METHYL BUTYL KETONE (2-HEXANONE)	NV	ND	ND	ND
METHYL ETHYL KETONE (2-BUTANONE)	16	ND	1.4 J	0.6 J
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	2.2	ND	ND	ND
METHYLENE CHLORIDE	22	0.83 J	0.69 J	0.83 J
NAPHTHALENE	NV	ND	ND	ND
N-HEPTANE	19	0.19 J	ND	0.25 J
N-HEXANE	18	0.57 J	0.85	0.62 J
O-XYLENE (1,2-DIMETHYLBENZENE)	7.6	0.32 J	0.37 J	0.4 J
STYRENE	1.3	ND	0.2 J	0.2
TETRACHLOROETHENE	2.9	0.16 J	0.24 J	ND
TOLUENE	58	2.2	2.5	2.1
TRANS-1,2-DICHLOROETHENE	NV	ND	0.42 J	ND
TRICHLOROETHENE	0.48	1.4	35	0.23 J
TRICHLOROFLUOROMETHANE	17	1.6	1.3	1.2
VINYL CHLORIDE	<0.25	ND	0.089 J	ND
XYLENES, TOTAL	NV	1.3 J	1.5 J	1.5 J

Notes:

1. Only those parameters detected above the method detection limits, at a minimum of one location are presented in this table.
2. NV = No Value
3. ND = compound concentration below reporting limit.
4. J = estimated concentration. Results is less than the reporting limit but greater than or equal to the method detection limit.

  = Indoor Results Exceeds NYSDOH 90th Percentile

TABLE 8

COMPARISON OF AIR SAMPLING RESULTS TO NYSDOH SVI GUIDANCE MATRICES

REMEDIAL INVESTIGATION / ALTERNATIVE ANALYSIS REPORT

Former Trico Plant  
791 Washington Street  
Buffalo, New York

Sample Location	Carbon Tetrachloride		Trichloroethene (TCE)		Vinyl Chloride		Tetrachloroethene (PCE)		1,1,1 -Trichloroethane		cis-1,2-Dichloroethene		1,1-Dichloroethene	
	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix 1	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix 1	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix 1	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix 2	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix 2	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix 2	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix 2
SSV-1	0.26 J	NFA	1.5	I, R	ND	NFA	1.5	NFA	ND	NFA	ND	NFA	ND	NFA
SSV-2	0.78 J	NFA	260	Mitigate	ND	NFA	2.4	NFA	ND	NFA	0.5 J	NFA	ND	NFA
SSV-3	ND	NFA	19000	Mitigate	ND	NFA	ND	NFA	890	Monitor	730	Monitor	810	Monitor
SSV-7	0.47 J	Background	5.9	Monitor	ND	NFA	1.4 J	NFA	ND	NFA	ND	NFA	ND	NFA
IA-1	0.5 J		1.4		ND		0.16 J		0.26 J		0.22 J		ND	
OA-1	0.41 J	Background	0.23 J	Background	ND	Background	ND	Background	ND	Background	ND	Background	ND	Background

Sample Location	Carbon Tetrachloride		Trichloroethene (TCE)		Vinyl Chloride		Tetrachloroethene (PCE)		1,1,1 -Trichloroethane		cis-1,2-Dichloroethene		1,1-Dichloroethene	
	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix 1	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix 1	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix 1	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix 2	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix 2	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix 2	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix 2
SSV-4	ND	NFA	390	Mitigate	ND	NFA	2.8	NFA	13	NFA	18	I, R	ND	NFA
SSV-5	0.27 J	NFA	9.4	Mitigate	ND	NFA	0.89 J	NFA	0.4 J	NFA	0.71 J	I, R	ND	NFA
SSV-6	ND	NFA	610	Mitigate	ND	NFA	2.2 J	NFA	5.7	NFA	220	Monitor/Mitigate	ND	NFA
IA-2	0.46 J		35		0.089 J		0.24 J		ND		5.9		ND	
OA-1	0.41 J	Background	0.23 J	Background	ND	Background	ND	Background	ND	Background	ND	Background	ND	Background

Notes:

1. Sub-slab samples listed as SSV-1 through SSV-7 were identified in the laboratory report as SV-1 through SV-7.

Definitions:

ND = Not Detected

NFA = No further action.

I, R = Take reasonable and practical actions to identify source(s) and reduce exposures.

Monitor = Monitor soil vapor / indoor air

Mitigate = Mitigate source of identified parameter.

  = NYSDOH Matrix 1 Compounds  
  = NYSDOH Matrix 2 Compounds

**TABLE 9**

**STANDARDS, CRITERIA, AND GUIDANCE (SCGs)**

**REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT**

**FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK**

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





TABLE 10

**COST ESTIMATE FOR UNRESTRICTED USE (TRACK 1) ALTERNATIVE  
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT**

**FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK**

Item	Quantity	Units	Unit Cost	Total Cost	Remarks
<b>Demolition</b>					
Foundation Demolition	26,820	SF	\$ 1.00	\$ 26,820	3 of 4 areas; 4th on Burton St.
Hydraulic Lift Infrastructure	1	LS	\$ 20,000	\$ 20,000	
Loading/Trucking/Disposing C&D Material	134	TON	\$ 45	\$ 6,035	
<b>Subtotal:</b>				<b>\$ 53,000</b>	
<b>Impacted Soil/Fill Removal</b>					
Excavation Dewatering and Treatment	100,000	GAL	\$ 0.35	\$ 35,000	
Soil/Fill Excavation and Loading	12,433	TON	\$ 6	\$ 74,600	27,975 SF (4 areas) and 8 fbgs
Transportation and Disposal at TSDF	12,433	TON	\$ 35	\$ 435,167	1.5 tons per CY
Post-Excavation Confirmatory Sampling	20	EA	\$ 375	\$ 7,500	4 sidewalls and 1 bottom in each area
Data Validation	20	EA	\$ 105	\$ 2,100	
<b>Subtotal:</b>				<b>\$ 555,000</b>	
<b>Backfilling/Site Restoration</b>					
Geotextile	26,820	SF	\$ 1.50	\$ 40,230	
Import, Backfill, Place & Compact	12,433	TON	\$ 22	\$ 273,533	
Backfill Characterization Sampling	32	Ea	\$ 100	\$ 3,158	VOCs
Data Validation	32	EA	\$ 25	\$ 789	
Backfill Characterization Sampling	14	EA	\$ 500	\$ 7,144	SVOCs, PCBs, Pesticides, Metals
Data Validation	14	EA	\$ 80	\$ 1,143	
Poured 8" Concrete Foundation	26,820	SF	\$ 12.00	\$ 321,840	
<b>Subtotal:</b>				<b>\$ 648,000</b>	
<b>Basement Water Removal</b>					
BSA Discharge Permit	1	LS	\$ 10,000	\$ 10,000	
Pumping Water	150,000	GAL	\$ 0.10	\$ 15,000	
Water Treatment and Discharge	150,000	GAL	\$ 0.25	\$ 38,000	
Vacuum Removal & Disposal of Sediment	1	LS	\$ 20,000	\$ 20,000	
<b>Subtotal:</b>				<b>\$ 83,000</b>	
<b>In-Situ Groundwater Treatment</b>					
Injection Amendments	2	Events	\$ 102,140	\$ 205,000	
Injection Subcontractor and Oversight	14	DAY	\$ 3,800	\$ 54,000	
Performance Groundwater Monitoring	3	Events	\$ 6,000	\$ 18,000	
<b>Subtotal:</b>				<b>\$ 277,000</b>	
<b>Installation of ASD System</b>					
System Design and Engineering	1	LS	\$ 10,000	\$ 10,000	
System Material and Installation	85,800	SF	\$ 1.50	\$ 128,700	Approx. 330' x 260'
<b>Subtotal:</b>				<b>\$ 138,700</b>	
<b>Subtotal Capital Cost</b>				<b>\$ 1,755,000</b>	
Contractor Mobilization/Demobilization (5%)				\$ 87,750	
Health and Safety (2%)				\$ 35,100	
Engineering/Contingency (35%)				\$ 614,250	
<b>Total Capital Cost</b>				<b>\$ 2,493,000</b>	
<b>Operation Maintenance &amp; Monitoring (Present Value):</b>					
Groundwater Monitoring (39 events, \$6,000 per event, discount rate of 5%)				\$ 141,000	Quarterly (2 yrs), Semi-Annual (3 yrs), Annual (25 yrs)
Annual Certification (30 reports, \$2,000 per report, discount rate of 5%)				\$ 31,000	GW PRR
<b>Total OM&amp;M Cost</b>				<b>\$ 172,000</b>	
<b>Total Capital Cost for Unrestricted Use (Track 1)</b>				<b>\$ 2,665,000</b>	

**Notes:**

1. Costs for disposal of regulated wastes and abatement required for redevelopment are not included.

TABLE 11

**COST ESTIMATE FOR RESTRICTED RESIDENTIAL USE (TRACK 4) ALTERNATIVE WITH GROUNDWATER EXTRACTION & TREATMENT**

**REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT**

**FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK**

Item	Quantity	Units	Unit Cost	Total Cost	Remarks
<b>Impacted Soil/Fill Removal</b>					
Hydraulic Lift Infrastructure Demolition	1	LS	\$ 20,000	\$ 20,000	
Soil/Fill Excavation and Loading	356	TON	\$ 6	\$ 2,133	40' x 40' x 4' deep
Transportation and Disposal at TSDF	356	TON	\$ 35	\$ 12,444	1.5 tons per CY
Post-Excavation Confirmatory Sampling	10	EA	\$ 375	\$ 3,750	VOCs, SVOCs, Metals
Data Validation	10	EA	\$ 60	\$ 600	
<b>Subtotal:</b>				<b>\$ 39,000</b>	
<b>Backfilling/Cover System</b>					
Backfilling Excavation with Crushed Gravel	356	TON	\$ 22	\$ 7,822	
Analytical	5	EA	\$ 100	\$ 547	VOCs
Data Validation	5	EA	\$ 25	\$ 137	
Analytical	1	EA	\$ 500	\$ 619	SVOCs, PCBs, Pesticides, Metals
Data Validation	1	EA	\$ 80	\$ 99	
Geotextile	1,600	SF	\$ 1.50	\$ 2,400	
Demarcation Layer	1	Rolls	\$ 2,500	\$ 2,500	
<b>Subtotal:</b>				<b>\$ 15,000</b>	
<b>Basement Water and Sediment Removal</b>					
BSA Discharge Permit	1	LS	\$ 10,000	\$ 10,000	
Pumping Water	150,000	GAL	\$ 0.10	\$ 15,000	
Water Treatment and Discharge	150,000	GAL	\$ 0.25	\$ 38,000	
Vacuum Removal & Disposal of Sediment	1	LS	\$ 20,000	\$ 20,000	
<b>Subtotal:</b>				<b>\$ 83,000</b>	
<b>Groundwater Extraction &amp; Treatment</b>					
System Design and Engineering	1	EST	\$ 50,000	\$ 50,000	
Extraction Well, Force Main & Pump Installation/Controls	1	EST	\$ 95,000	\$ 95,000	
Groundwater Treatment System	1	EST	\$ 150,000	\$ 150,000	
Electrical Work & System Star-up	1	EST	\$ 45,000	\$ 45,000	
<b>Subtotal:</b>				<b>\$ 340,000</b>	
<b>Installation of ASD System</b>					
System Design and Engineering	1	LS	\$ 10,000	\$ 10,000	
System Material and Installation	85,800	SF	\$ 1.50	\$ 128,700	Approx. 330' x 260'
<b>Subtotal:</b>				<b>\$ 138,700</b>	
<b>Subtotal Capital Cost</b>				<b>\$ 616,000</b>	
Contractor Mobilization/Demobilization (5%)				\$ 30,800	
Health and Safety (2%)				\$ 12,320	
Engineering/Contingency (35%)				\$ 215,600	
<b>Total Capital Cost</b>				<b>\$ 875,000</b>	
<b>Operation Maintenance &amp; Monitoring:</b>					
Groundwater Treatment OMM Costs includes electrical/operator to make monthly checks/maintenance on system (\$36,000, 30 years, discount factor of 5%)				\$ 553,000	
Groundwater Monitoring (39 events, \$6,000 per event, discount rate of 5%)				\$ 141,000	Quarterly (2 yrs), Semi-Annual (3 yrs), Annual (25 yrs)
Annual Certification (30 reports, \$2,000 per report, discount rate of 5%)				\$ 31,000	GW PRR
<b>Total OM&amp;M Cost</b>				<b>\$ 725,000</b>	
<b>Total 30-Year Cost for Restricted Residential Use (Track 4)</b>				<b>\$ 1,600,000</b>	

**Notes:**

1. Costs for disposal of regulated wastes and abatement required for redevelopment are not included.



TABLE 12

**COST ESTIMATE FOR RESTRICTED RESIDENTIAL USE (TRACK 4) ALTERNATIVE WITH IN-SITU GROUNDWATER TREATMENT  
REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS REPORT**

**FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK**

Item	Quantity	Units	Unit Cost	Total Cost	Remarks
<b>Impacted Soil/Fill Removal</b>					
Hydraulic Lift Infrastructure Demolition	1	LS	\$ 20,000	\$ 20,000	
Soil/Fill Excavation and Loading	356	TON	\$ 6	\$ 2,133	40' x 40' x 4' deep
Transportation and Disposal at TSDF	356	TON	\$ 35	\$ 12,444	1.5 tons per CY
Post-Excavation Confirmatory Sampling	10	EA	\$ 375	\$ 3,750	VOCs, SVOCs, Metals
Data Validation	10	EA	\$ 60	\$ 600	
<b>Subtotal:</b>				<b>\$ 39,000</b>	
<b>Backfilling/Cover System</b>					
Backfilling Excavation with Crushed Gravel	356	TON	\$ 22	\$ 7,822	
Analytical	5	EA	\$ 100	\$ 547	VOCs
Data Validation	5	EA	\$ 25	\$ 137	
Analytical	1	EA	\$ 500	\$ 619	SVOCs, PCBs, Pesticides, Metals
Data Validation	1	EA	\$ 80	\$ 99	
Geotextile	1,600	SF	\$ 1.50	\$ 2,400	
Demarcation Layer	1	Rolls	\$ 2,500	\$ 2,500	
<b>Subtotal:</b>				<b>\$ 15,000</b>	
<b>Basement Water and Sediment Removal</b>					
BSA Discharge Permit	1	LS	\$ 10,000	\$ 10,000	
Pumping Water	150,000	GAL	\$ 0.10	\$ 15,000	
Water Treatment and Discharge	150,000	GAL	\$ 0.25	\$ 38,000	
Vacuum Removal & Disposal of Sediment	1	LS	\$ 20,000	\$ 20,000	
<b>Subtotal:</b>				<b>\$ 83,000</b>	
<b>In-Situ Groundwater Treatment</b>					
Injection Amendments	2	Events	\$ 102,140	\$ 205,000	
Injection Subcontractor and Oversight	14	DAY	\$ 3,800	\$ 54,000	
Performance Groundwater Monitoring	3	Events	\$ 6,000	\$ 18,000	
<b>Subtotal:</b>				<b>\$ 277,000</b>	
<b>Installation of ASD System</b>					
System Design and Engineering	1	LS	\$ 10,000	\$ 10,000	
System Material and Installation	85,800	SF	\$ 1.50	\$ 128,700	Approx. 330' x 260'
<b>Subtotal:</b>				<b>\$ 138,700</b>	
<b>Subtotal Capital Cost</b>				<b>\$ 553,000</b>	
Contractor Mobilization/Demobilization (5%)				\$ 27,650	
Health and Safety (2%)				\$ 11,060	
Engineering/Contingency (35%)				\$ 193,550	
<b>Total Capital Cost</b>				<b>\$ 786,000</b>	
<b>Operation Maintenance &amp; Monitoring:</b>					
Groundwater Monitoring (39 events, \$6,000 per event, discount rate of 5%)				\$ 141,000	Quarterly (2 yrs), Semi-Annual (3 yrs), Annual (25 yrs)
Annual Certification (30 reports, \$2,000 per report, discount rate of 5%)				\$ 31,000	GW PRR
<b>Total OM&amp;M Cost</b>				<b>\$ 172,000</b>	
<b>Total 30-Year Cost for Restricted Residential Use (Track 4)</b>				<b>\$ 958,000</b>	

**Notes:**

1. Costs for disposal of regulated wastes and abatement required for redevelopment are not included.



**TABLE 13**  
**COMPARISON OF REMEDIAL ALTERNATIVES**  
**REMEDIAL INVESTIGATION / ALTERNATIVE ANALYSIS REPORT**  
**FORMER TRICO PLANT**  
**791 WASHINGTON STREET**  
**BUFFALO, NEW YORK**

Remedial Alternative	NYSDEC DER-10 Evaluation Criteria								
	1. Overall	2. SCGs	3. Eff & Perm	4. Reduction	5. Imp & Eff	6. Implement	7. Cost Eff	8. Community	9. Land Use
Alternative 1 - No Action						✓	\$0	TBE	
Alternative 2 - Track 1 Cleanup	✓	✓	✓	✓			\$2.67 million	TBE	✓
Alternative 3 - Track 4 Cleanup with Groundwater Extraction & Treatment	✓	✓	✓	✓	✓		\$1.6 million	TBE	✓
Alternative 4 - Track 4 Cleanup with In-Situ Groundwater Treatment	✓	✓	✓	✓	✓	✓	\$958,000	TBE	✓

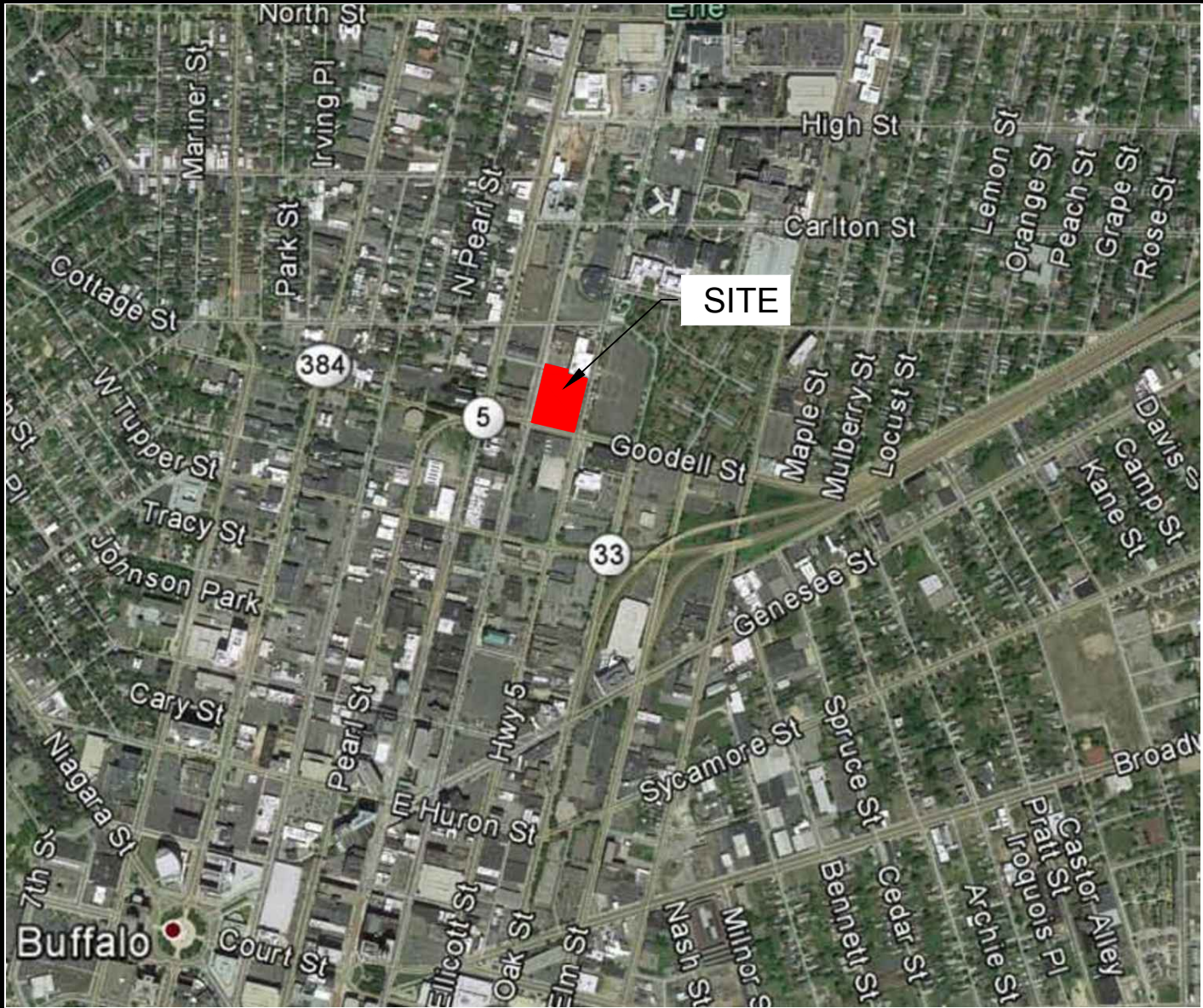
**Notes:**

1. Overall Protectiveness of Public Health and the Environment
2. Compliance with Standards, Criteria, and Guidance (SCGs)
3. Long-Term Effectiveness and Permanence
4. Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment
5. Short-Term Impacts and Effectiveness
6. Implementability (Technical and Administrative)
7. Cost Effectiveness provided in Present Worth
8. Community Acceptance
9. Land Use

✓ = Alternative satisfies criterion  
TBE = To be evaluated following public comment period

# FIGURES

FIGURE 1



SCALE: 1 INCH = 1,000 FEET  
 SCALE IN FEET  
 (approximate)



2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

PROJECT NO.: 0092-016-001
DATE: JULY 2016
DRAFTED BY: RFL

### SITE LOCATION AND VICINITY MAP

RI/AA REPORT  
 FORMER TRICO PLANT  
 791 WASHINGTON STREET  
 BUFFALO, NEW YORK  
 PREPARED FOR  
 THE KROG GROUP, LLC

**DISCLAIMER:** PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.

LEGEND:

BCP SITE BOUNDARY



WASHINGTON STREET

ELLIOTT STREET

GOODELL STREET



SCALE: 1 INCH = 50 FEET  
SCALE IN FEET  
(approximate)

DATE: JULY 2016  
DRAFTED BY: REL

SITE PLAN (AERIAL)

RI/AA REPORT  
FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK  
PREPARED FOR  
THE KROG GROUP, LLC

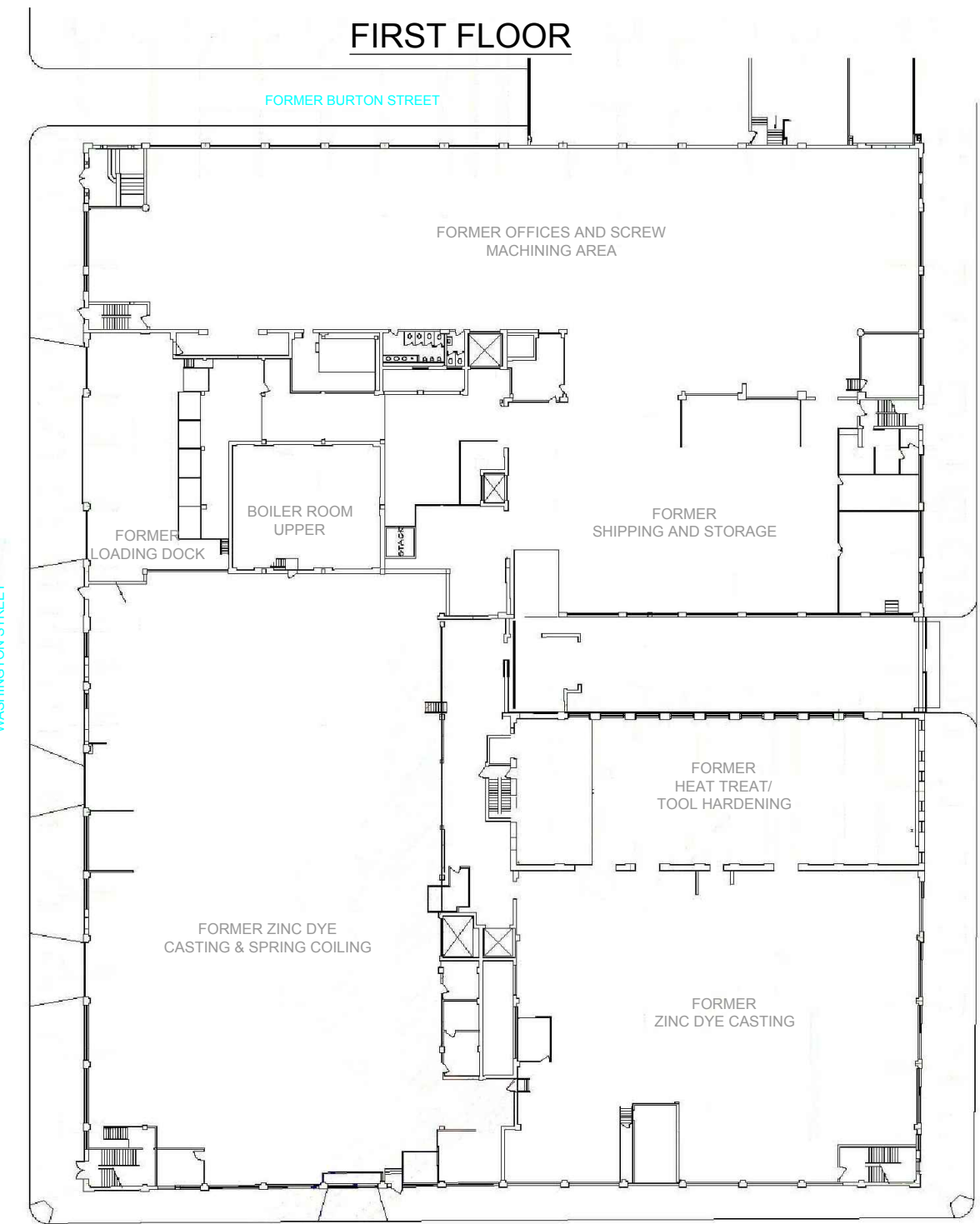
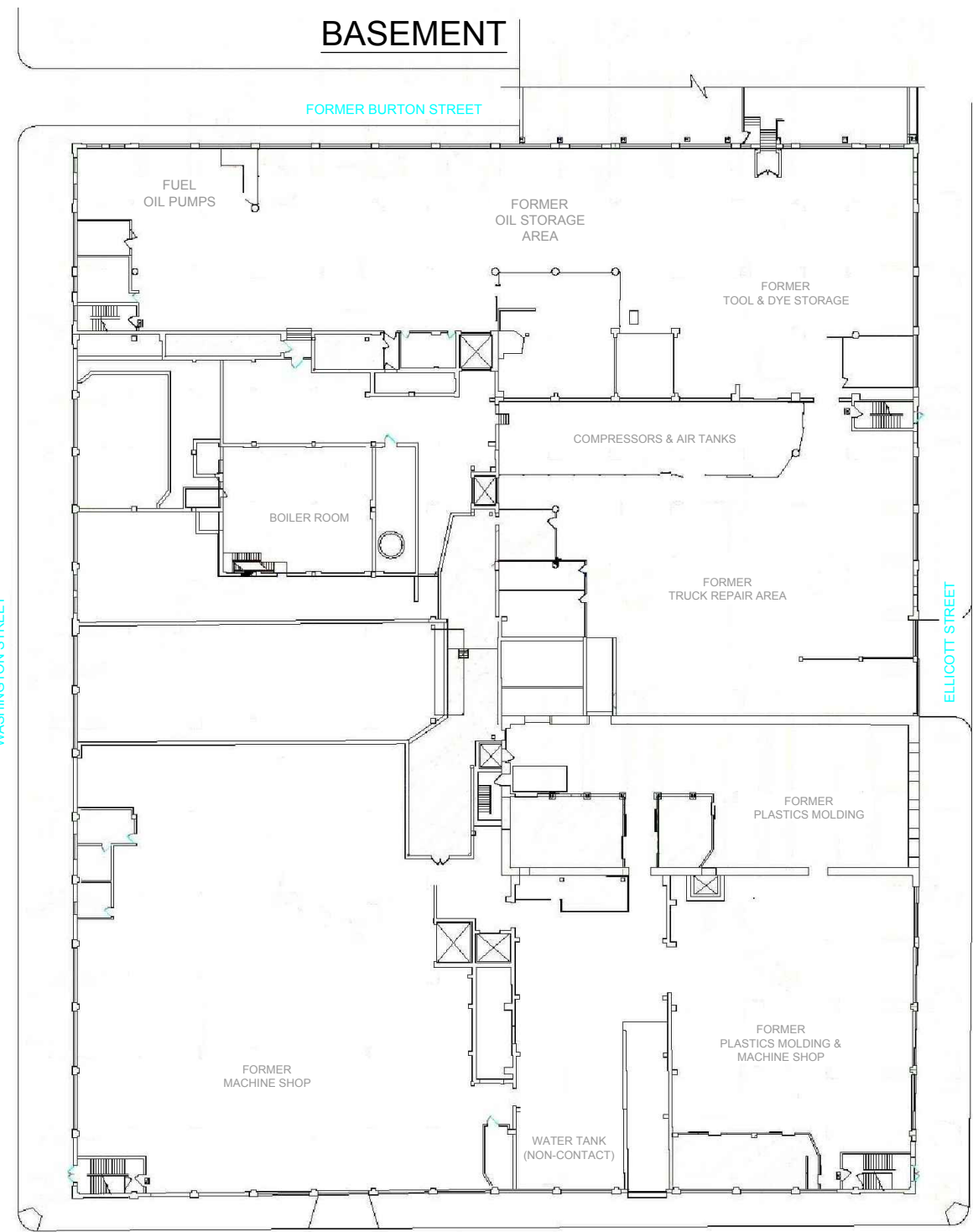


2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

JOB NO.: 0092-016-001

FIGURE 2

DISCLAIMER: PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.



SCALE: 1 INCH = 50 FEET  
SCALE IN FEET  
(approximate)

**BUILDING FLOOR PLAN  
BASEMENT & 1ST FLOOR**

RI/AA REPORT  
FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK  
PREPARED FOR  
THE KROG GROUP, LLC



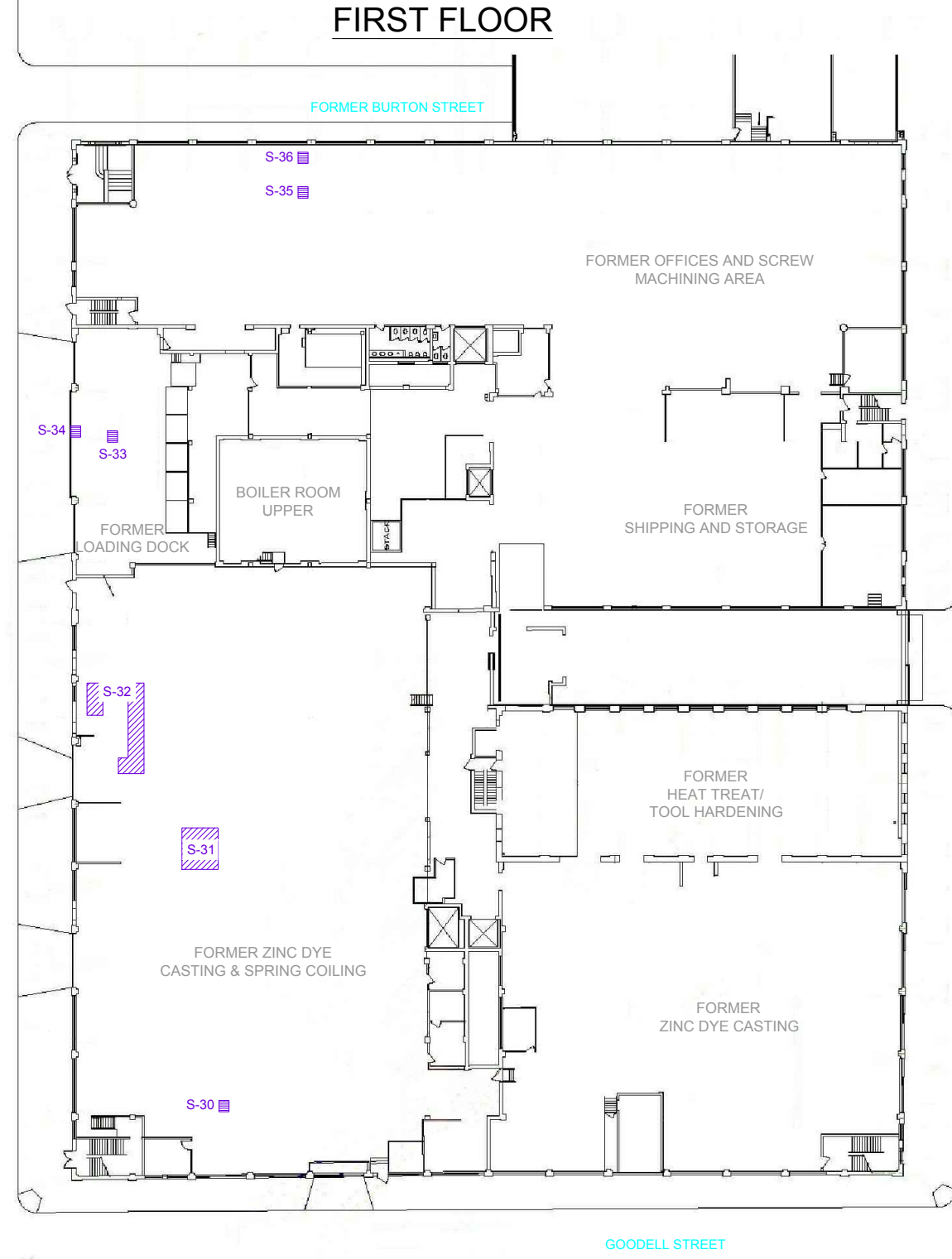
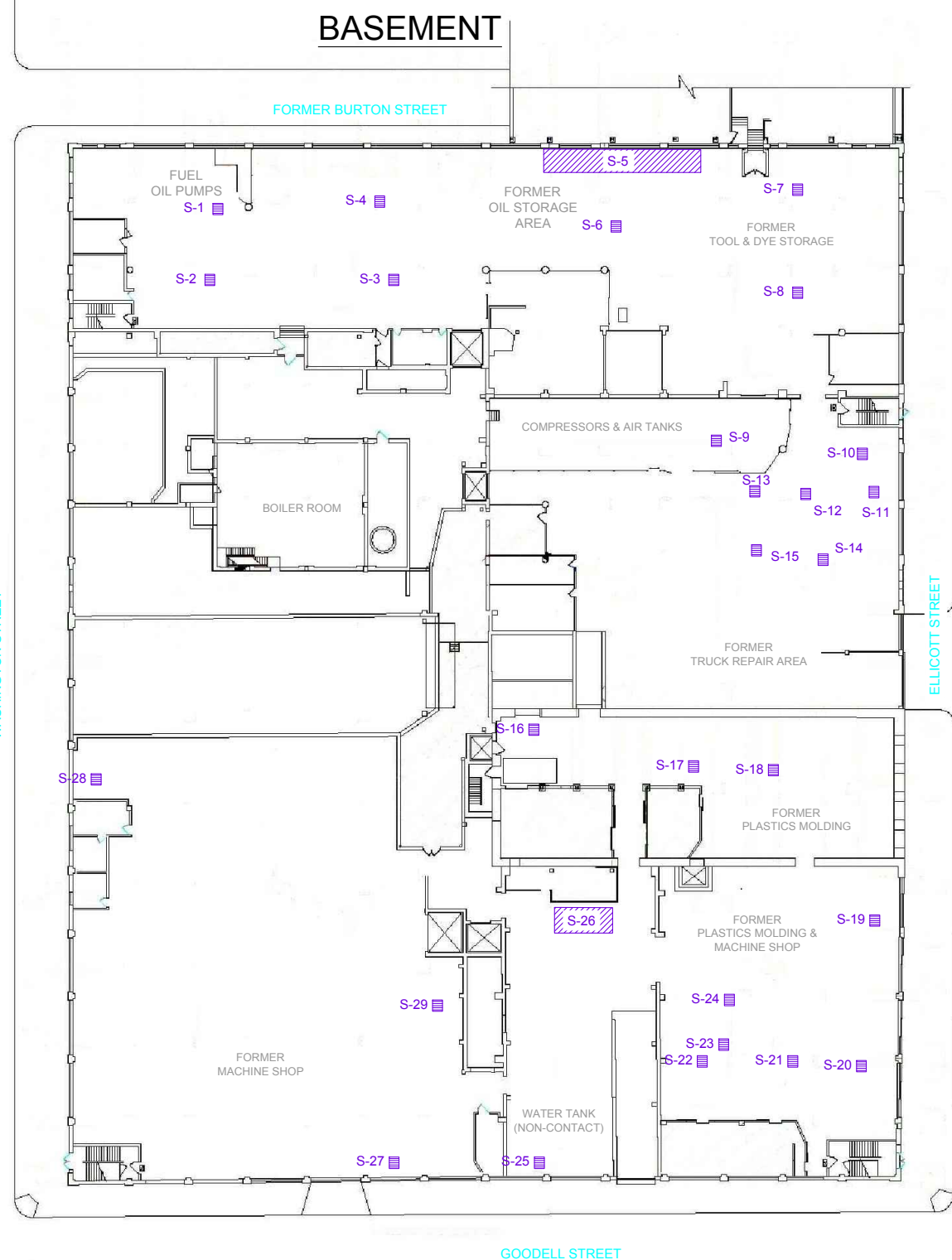
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

JOB NO.: 0092-016-001

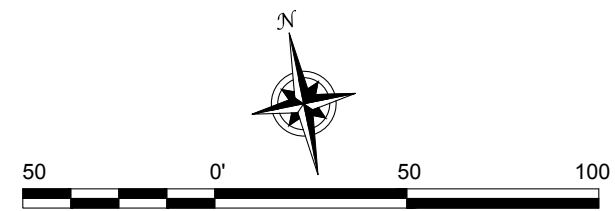
**FIGURE 3**

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**LEGEND**  
 S-10 [Symbol] UTILITY AND SEWER SERVICE SURFACE/SUBSURFACE FEATURE LOCATION (SEE APPENDIX A FOR DESCRIPTION)



SCALE: 1 INCH = 50 FEET  
 SCALE IN FEET (approximate)

**UTILITY AND SEWER SERVICE FEATURES  
 BASEMENT & 1ST FLOOR**

R/IAA REPORT  
 FORMER TRICO PLANT  
 791 WASHINGTON STREET  
 BUFFALO, NEW YORK  
 PREPARED FOR  
 THE KROG GROUP, LLC

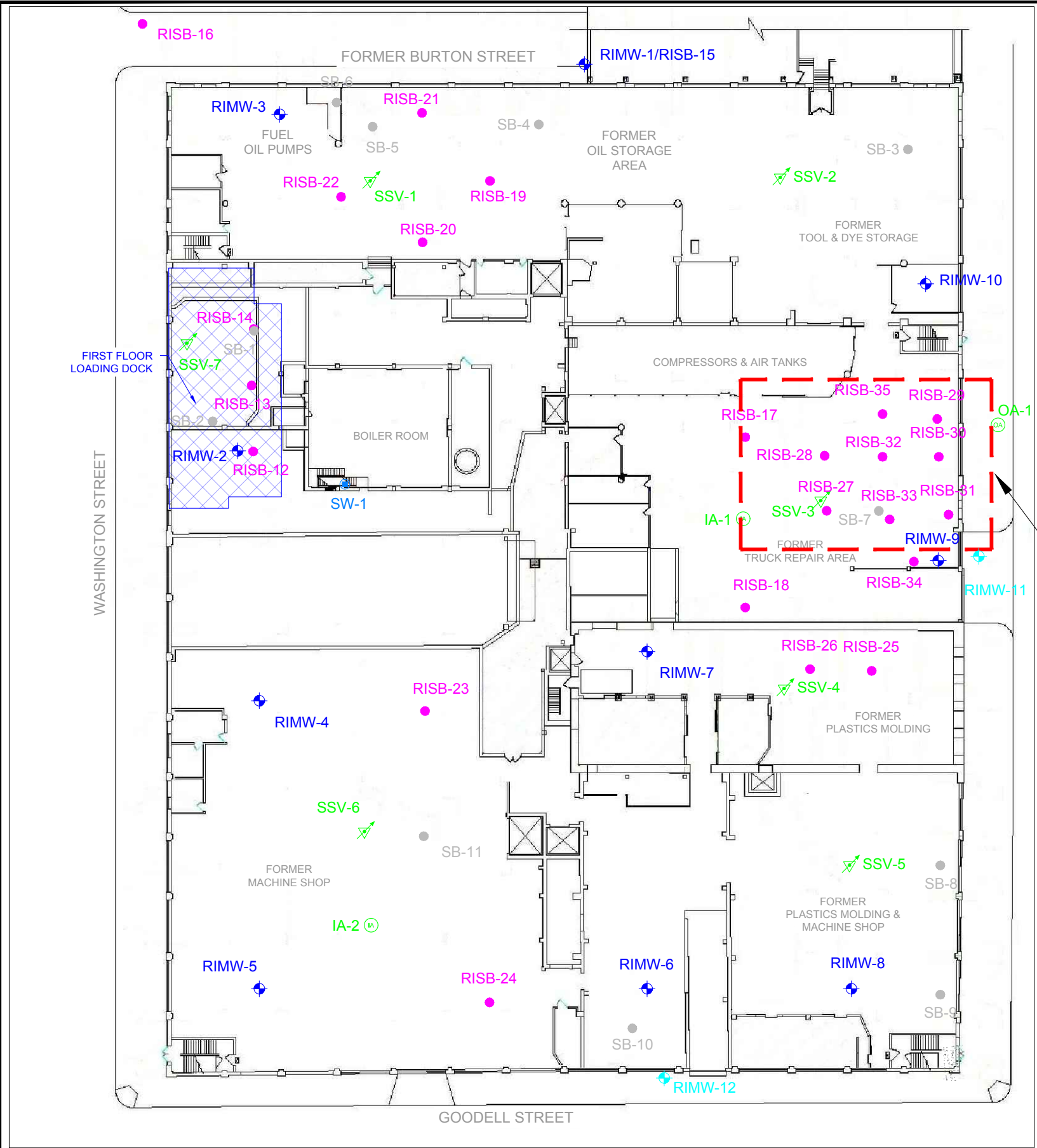


2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

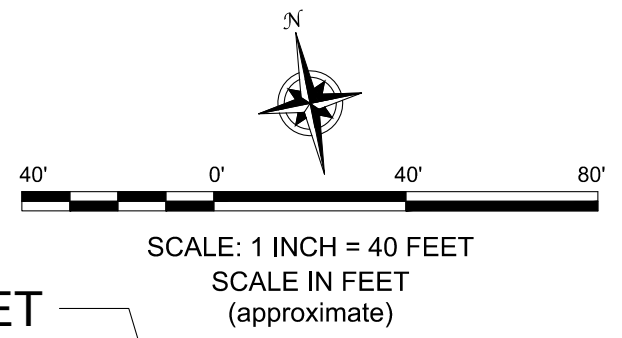
JOB NO.: 0092-016-001

**FIGURE 4**

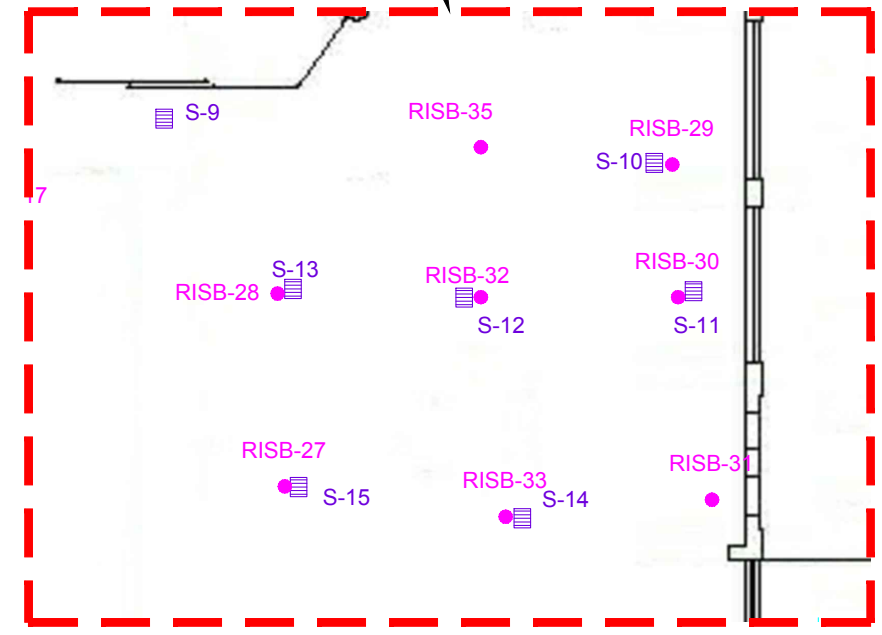
DISCLAIMER: PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.



- LEGEND:**
- SB-2 ● 2013 BORING LOCATION
  - RISB-3 ● SOIL BORING LOCATION
  - RIMW-2 ◆ SOIL BORING/MONITORING WELL LOCATION
  - SW-1 ● BASEMENT STANDING WATER SAMPLE LOCATION
  - SV-3 ↗ SUB-SLAB VAPOR SAMPLE LOCATION
  - IA-1 ⊙ INDOOR AIR SAMPLE LOCATION
  - OA-1 ⊙ OUTDOOR AIR SAMPLE LOCATION
  - S-10 ▭ APPROXIMATE STRUCTURE LOCATION (DROP INLET, TRENCH DRAIN, ETC.)
  - RIMW-12 ◆ DEEP SOIL BORING/MONITORING WELL LOCATION



SEE INSET BELOW



INSET  
DECEMBER 2016 BORINGS  
AND STRUCTURE LOCATIONS  
NTS

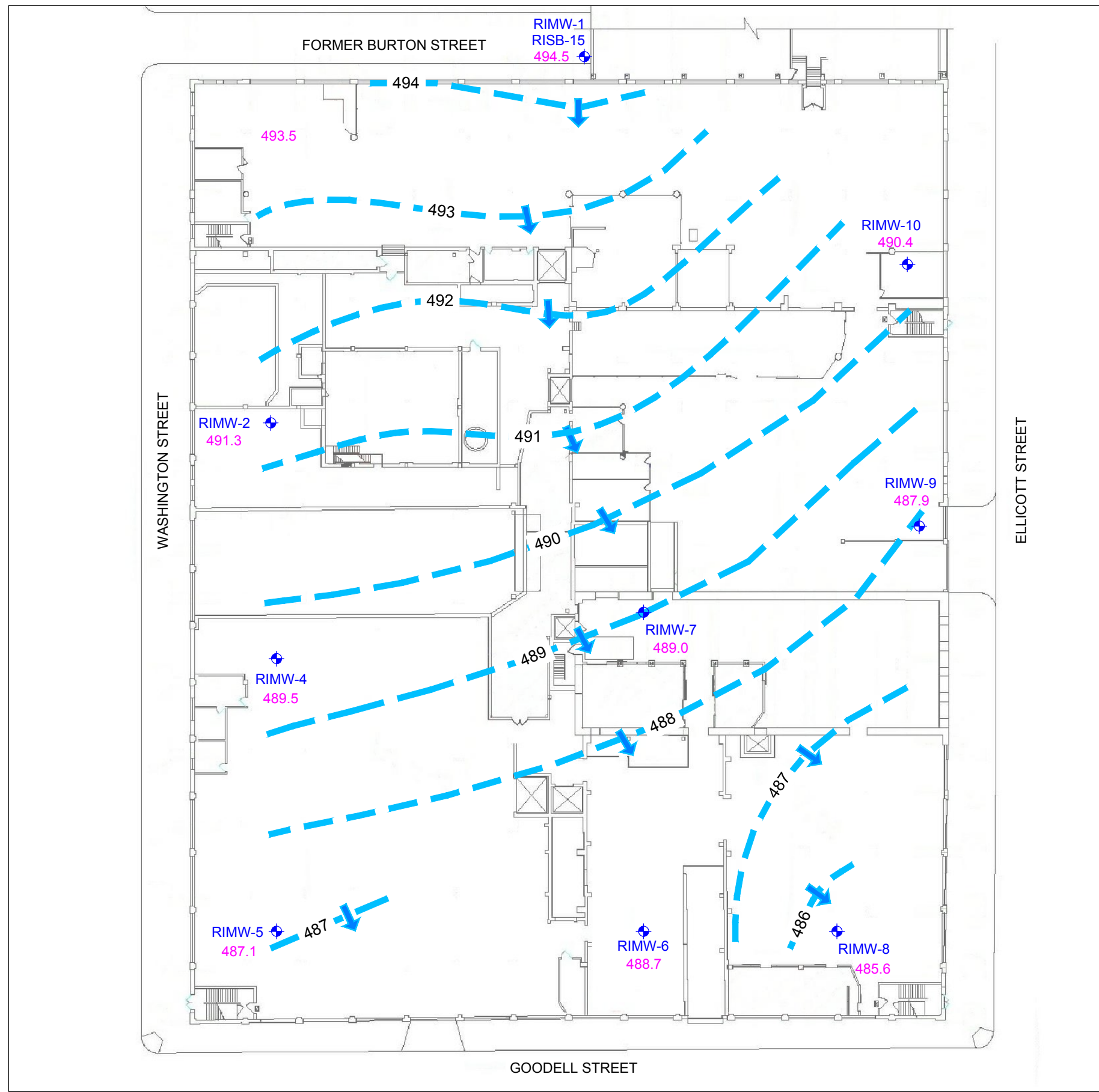
JOB NO.: 0092-016-001

**REMEDIAL INVESTIGATION SAMPLE LOCATIONS**

R/IA REPORT  
FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK  
PREPARED FOR  
THE KROG GROUP, LLC

**FIGURE 5**

**DISCLAIMER: PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.**



**LEGEND:**

- ◆ RIMW-3 MONITORING WELL LOCATION
- 493.5 GROUNDWATER ELEVATION JUNE 10, 2016
- 488 GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION

North arrow pointing up.

Graphic scale bar: 0' to 80'.

SCALE: 1 INCH = 40 FEET  
SCALE IN FEET (approximate)

**GROUNDWATER ISOPOTENTIAL MAP**

**JUNE 10, 2016**  
RI/AA REPORT  
FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK  
PREPARED FOR  
**THE KROG GROUP, LLC**

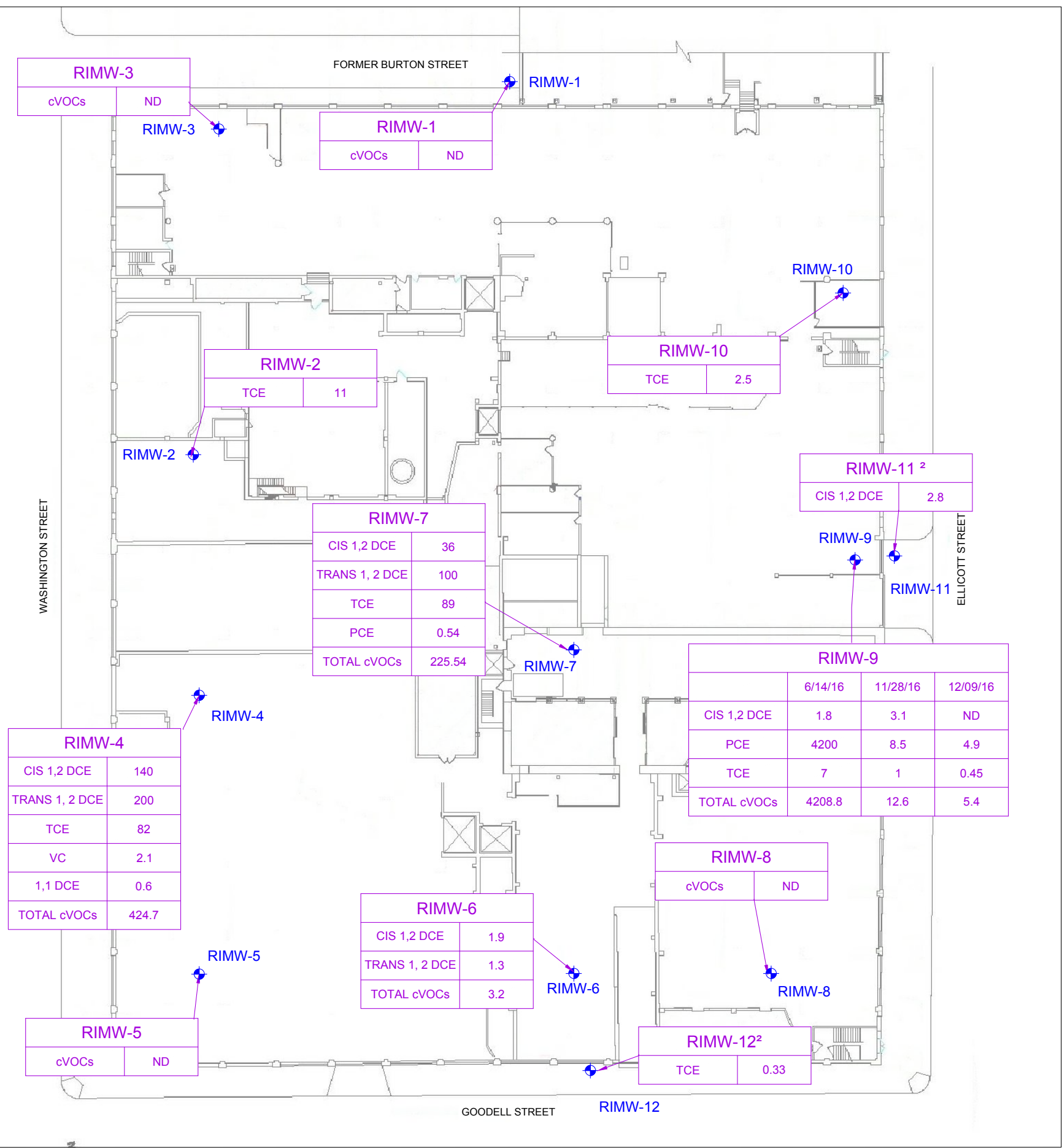
**TURNKEY** ENVIRONMENTAL RESTORATION, LLC  
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

**BENCHMARK** ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

JOB NO.: 0092-016-001

**FIGURE 6**

**DISCLAIMER: PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.**



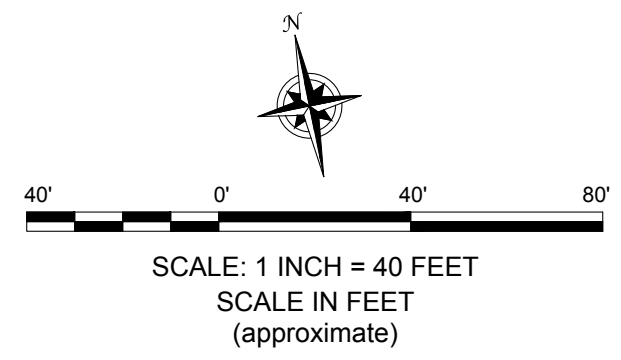
**LEGEND:**

RIMW-2 MONITORING WELL LOCATION

RIMW-10	←	WELL NUMBER
TCE	←	CONCENTRATION (ug/l)

← COMPOUND

- NOTES:**
- ALL SAMPLES COLLECTED IN JUNE 2016 EXCEPT WHERE NOTED.
  - SAMPLES COLLECTED ON NOVEMBER 28, 2016
  - CIS 1, 2 DCE = CIS-1,2-DICHLOROETHENE  
TRANS 1, 2 DCE = TRANS-1,2-DICHLOROETHENE  
PCE = TETRACHLOROETHENE  
TCE = TRICHLOROETHENE  
VC = VINYL CHLORIDE
  - ug/l = MICROGRAMS PER LITER
  - cVOC MEANS CHLORINATED VOLATILE ORGANIC COMPOUNDS LISTED ABOVE IN NOTE 3



**cVOCs IN GROUNDWATER**

RI/AA REPORT  
FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK  
PREPARED FOR  
THE KROG GROUP, LLC

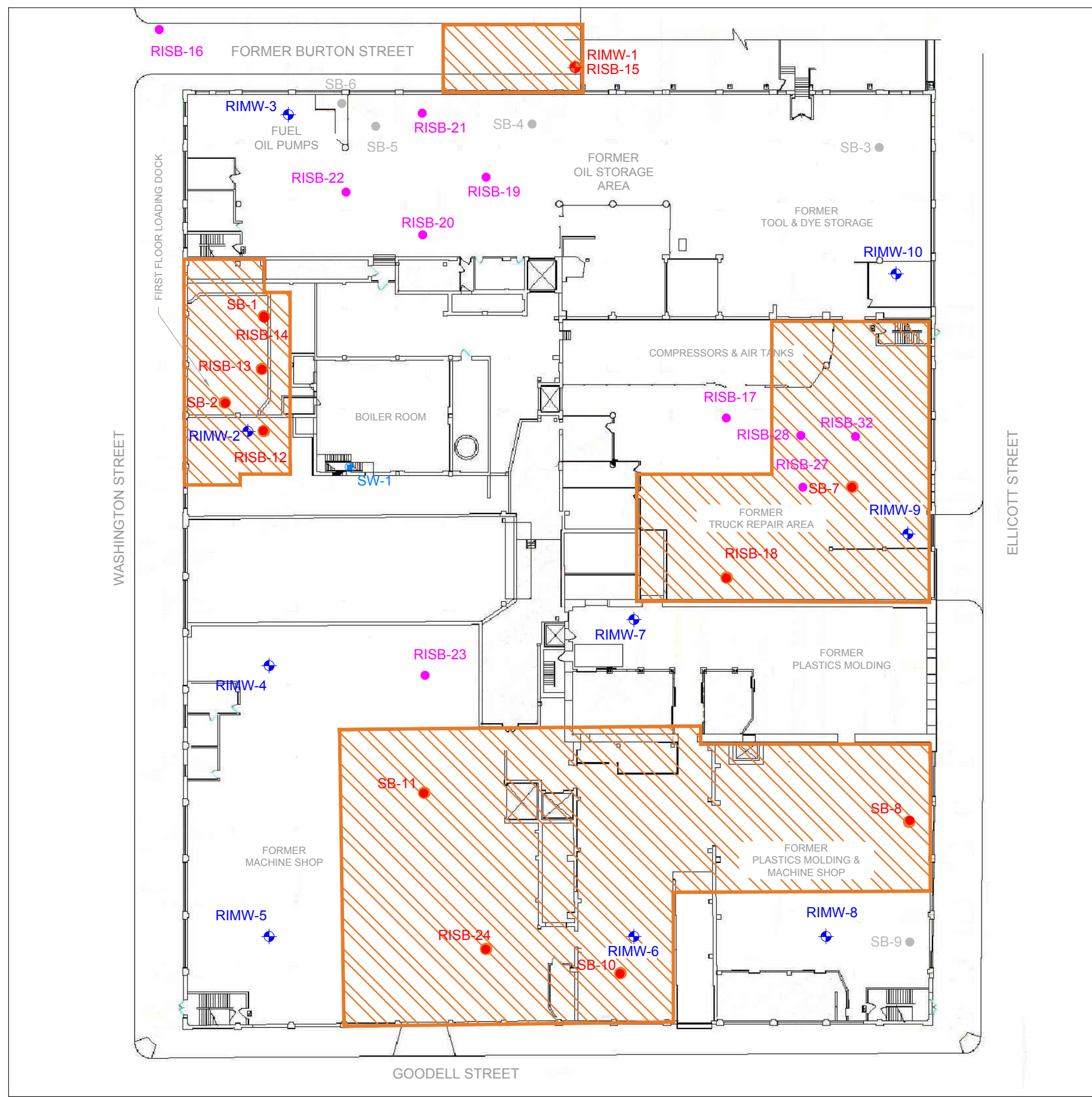


2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

JOB NO.: 0092-016-001

**FIGURE 7**

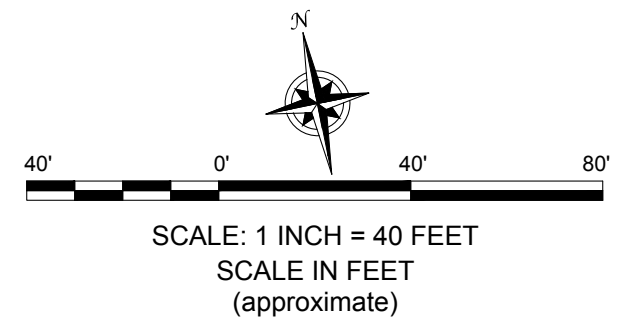
**DISCLAIMER:** PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.



**LEGEND:**

- SB-2 ● 2013 BORING LOCATION
- RISB-3 ● SOIL BORING LOCATION
- RIMW-2 ● SOIL BORING/MONITORING WELL LOCATION
- RIMW, SB, RISB ● USCO SOIL FILL EXCEEDANCE
- ▨ AREA OF USCO EXCEEDANCE REMOVAL

- NOTES:**
- USCO = UNRESTRICTED SOIL CLEANUP OBJECTIVE.
  - AREAS OF USCO EXCEEDANCE REMOVAL ARE BASED ON LIMITED DATA. RATIONAL OF LIMITS WERE TO IDENTIFY AREAS 1/2 THE DISTANCE TO AN ADJACENT SAMPLE LOCATION WHICH DID NOT CONTAIN AN USCO EXCEEDANCE, OR USED THE BOUNDARY OF THE BUILDING WALL OR CHANGE IN FLOOR GRADE ELEVATION.



**LOCATION OF UNRESTRICTED SOIL CLEANUP OBJECTIVE EXCEEDANCES**

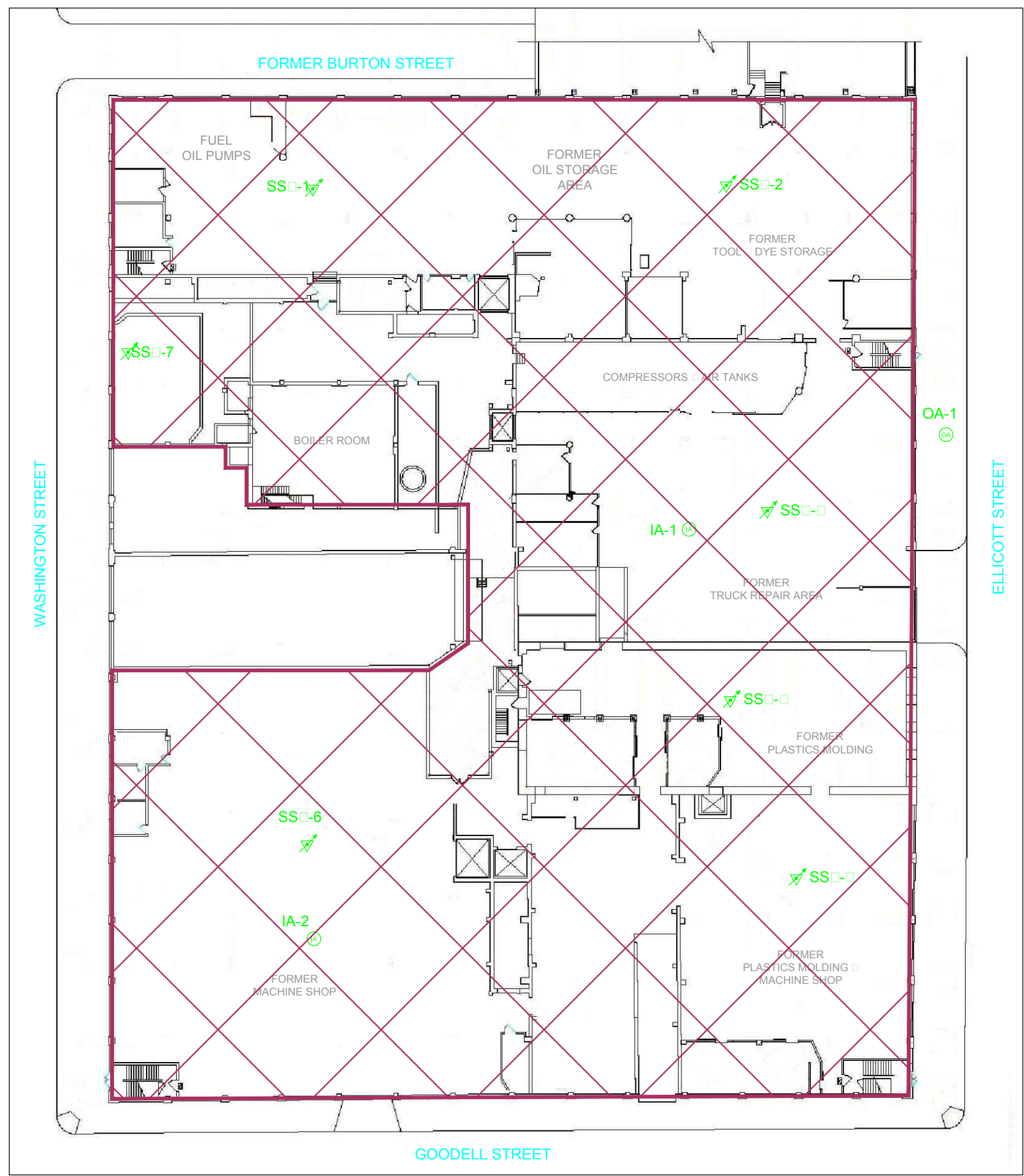


R/IA REPORT  
FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK  
PREPARED FOR  
THE KROG GROUP, LLC

JOB NO.: 0092-016-001

**FIGURE 8**

**DISCLAIMER: PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.**

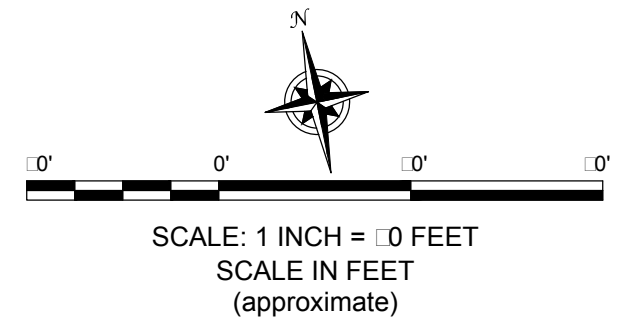


**LEGEND:**

- SS-□ (with green arrow) SUB-SLAB VAPOR SAMPLE LOCATION
- IA-1 (with green circle) INDOOR AIR SAMPLE LOCATION
- OA-1 (with green circle) OUTDOOR AIR SAMPLE LOCATION
- Red cross-hatch pattern AREA OF SVI MITIGATION

**NOTES:**

1. SS-□ = SOIL VAPOR INTRUSION



**AREA OF BUILDING REQUIRING SVI MITIGATION**

R/IA REPORT  
**FORMER TRICO PLANT**  
 791 WASHINGTON STREET  
 BUFFALO, NEW YORK  
 PREPARED FOR  
**THE KROG GROUP, LLC**



JOB NO.: 0092-016-001

**FIGURE 9**

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# APPENDIX A

## UTILITY & SEWER OBSERVATIONS TABLE

UTILITY AND SEWER SERVICE FEATURES OBSERVATION SUMMARY TABLE

REMEDIAL INVESTIGATION / ALTERNATIVE ANALYSIS REPORT

FORMER TRICO PLANT  
791 WASHINGTON STREET  
BUFFALO, NEW YORK

Structure Identification	Structure Location	Structure Type	Observations	Standing Water or Sediment Present	Visual Observations of Contamination	Olfactory Evidence of Contamination	PID Reading (ppm)	Notes
S-1	Basement - FOSA	Floor Drain	6-inch diameter concrete structure with 3-inch diameter pipe existing bottom vertically	Water & Sediment	Black staining and product around pipe. Sheen on sediment.	No	0	
S-2	Basement - FOSA	Floor Drain	6-inch diameter concrete structure with 3-inch diameter hole in bottom.	Sediment	No	No	0	
S-3	Basement - FOSA	Floor Drain	6-inch diameter	filled with sediment	No	No	0	could not open
S-4	Basement - FOSA	Floor Drain	6-inch diameter	filled with sediment	No	No	0	
S-5	Basement - FT&DA	Steel grate covered Pit	54 ft by 9 ft by 1.3 ft deep	Water	No	No	0	
S-6	Basement - FT&DA	Floor Drain	6-inch diameter concrete structure that elbows 45° towards east 6-inches below slab	No	No	No	0	could not open
S-7	Basement - FT&DA	Floor Drain	6-inch diameter concrete drain with perforated cover	Sediment	black stained sediment observed through cover	No	0	could not open
S-8	Basement - FT&DA	Floor Drain	6-inch diameter concrete drain with perforated cover	Sediment	black stained sediment observed through cover	No	0	could not open
S-9	Basement - C&ATA	Floor Drain	6-inch diameter concrete, elbows 45° towards east 6-inches below slab	No	No	No	0	no cover present
S-10	Basement - FTRA	Sump	24-inch diameter, 4-inch diameter iron pipe present in center extend to 48-inches below grade in southwestern direction	Sediment	No	No	0	grated cover
S-11	Basement - FTRA	Sump	24-inch diameter, 4-inch diameter iron pipe present in center extend to bottom of manhole in southwestern direction	Sediment	No	No	0	solid diamond plate cover
S-12	Basement - FTRA	Sump	24-inch diameter, pipes observed heading to east and north. Appears to be connected to S-11.	Sediment	No	No	0.1	
S-13	Basement - FTRA	Sump	24-inch diameter, pipe observed heading southeast towards S-14.	Sediment	No	No	0.6	grated cover
S-14	Basement - FTRA	Sump	24-inch diameter, pipe observed heading to northeast.	Water & Sediment	No	No	0	grated cover
S-15	Basement - FTRA	Sump	24-inch diameter, pipe observed heading to southeast.	Water & Sediment	slight sheen	No	0.7	
S-16	Basement - FPMA	Trench	4-inch by 8-inch by 18-inch deep trench. A 4-inch diameter pipe from floor above enters the trench. A 2-inch pipe is present in the trench in an east-west direction.	Water & Sediment	Oil present in west end of trench	No	1.7	
S-17	Basement - FPMA	Floor Drain	2-inch diameter drain that extends into a concrete covered floor trench	Sediment	No	No	0.8	Perforated Cover
S-18	Basement - FPMA	Floor Drain	2-inch diameter drain that extends into a concrete covered floor trench	No	No	No	0	slotted cover, could not open
S-19	Basement - FPM&MS	Sump	10-inch diameter	Sediment	No	No	0	no cover present
S-20	Basement - FPM&MS	Drainage Pipe	3-inch diameter	Sediment	No	No	0	Former use is unknown
S-21	Basement - FPM&MS	Roof Drain	4-inch diameter	No	No	No	0	Cut off at ceiling
S-22	Basement - FPM&MS	Floor Drain	3-inch diameter	Sediment	No	No	0	Perforated Cover
S-23	Basement - FPM&MS	Sump	12-inch by 12-inch by 8-inch deep	Sediment	No	No	0	Metal cover
S-24	Basement - FPM&MS	Drain	6-inch diameter	Water	slight sheen	No	0	
S-25	Basement	Drain	3-inch diameter	Water	No	No	0	
S-26	Basement	Metal Structure	6-foot by 6-foot	No	No	No	0	Could not Access
S-27	Basement - FMS	Sump	3-foot Diameter Sump Sealed Shut	No Access	No	No	0	could not open
S-28	Basement - FMS	Floor Drain	3-inch diameter	Sediment & Water	water is rust colored	No	0	
S-29	Basement - FMS	Roof Drain	4-inch diameter 45 degrees to west	No	No	No	0	Former roof drain
S-30	First Floor - FZDC & SC	Penetration	2-inch Penetration in slab	Sediment & Water	No	No	0	Could not see bottom
S-31	First Floor - FZDC & SC	No access	No access	No	No	No	0	could not open diamond-plate cover
S-32	First Floor - FZDC & SC	Trench	20-feet by 12-feet by 3-inches deep	No	No	No	0	
S-33	First Floor - FLD	Man Hole	No access	No	No	No	0	Could not open
S-34	First Floor - FLD	Sealed Grates	No access	No	No	No	0	Could not open
S-35	First Floor - SMA	Holding Tank	Above grade structure with drain. Approximately 12-inches wide by 12-inch tall	No	No	No	0	Black Stained
S-36	First Floor - SMA	Holding Tank	Above grade structure with drain. Approximately 12-inches wide by 12-inch tall	No	No	No	0	Black Stained

Notes:

- Utility and subsurface structure assessment completed on May 18, 2016. Assumes SVOC and metals-impacted soil/fill can be disposed of as non-hazardous waste. TCLP waste characterization will be required;
- PID = photoionization detector
- ppm = parts per million
- FOSA = Former Oil Storage Area
- FT&DA = Former Tool & Dye Area
- C&ATA = Compressor & Air Tanks Area
- FTRA = Former Truck Repair Area
- FPMA = Former Plastic Molding Area
- FMS = Former Machine Shop
- FZDC & SC = Former Zinc Dye Casting & Spring Coiling
- FLD = Former Loading Dock
- SMA = Screw Machine Area



# APPENDIX B

## SOIL BORING AND WELL CONSTRUCTION LOGS



**Summary of 2013 Limited Subsurface Investigation Sample Locations  
Soil Description & Field Observations**

**Former Trico Plant  
791 Washington Street  
Buffalo, New York**

Location	Total Soil Boring Depth*	Soil Sample Interval (fbgs)**	Soil Description/Field Observations/Notes	Location Description
<b>Boring Sample Locations</b>				
SB-1	2'	1-2'	3" concrete layer with visible oil-like substance between foundation layers 9" of concrete over cinder blocks Sample collected 1-2 ft	1st floor Former loading dock Near hydraulic lifts
SB-2	2'	1-2'	12" of concrete over cinder blocks Sample collected 1-2 ft	First floor Former loading dock Near hydraulic lifts
SB-3	1'	0.5-1.0'	6" of concrete Sand grading to clay	Basement Former tool and dye storage
SB-4	1'	0.5-1.0'	6" of concrete Petroleum like odor Gravel sub-base grading to clay	Basement Near oil storage
SB-5	1'	0.5-1.0'	6" of concrete Oil on floor near borings	Basement Near fuel oil pumps
SB-6	1'	0.5-1.0'	6" of concrete Oil on floor near borings	Basement Near fuel oil pumps
SB-7	1.5'	1.0-1.5'	8" of concrete Round gravel and cobbles grading to sand and clay	Basement Former truck repair area
SB-8	1.5'	1.0-1.5'	8" of concrete No odor Slag and sand	Basement Maintenance area
SB-9	1.5'	1.0-1.5'	8" of concrete No odor Slag and sand	Basement Maintenance area
SB-10	2'	1.0-2.0'	1' of concrete Pea stone grading to clay	Basement Near water tank
SB-11	2'	1.0-2.0'	1' of concrete Sand	Basement Former machine shop

Notes:

\* - Total boring depth below the concrete foundation.

\*\* - Interval depth of the layer of soil being sampled relative to depth below concrete slab

Project No: 0092-016-001

Borehole Number: RI SB-15/ RI MW-1



Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Asphalt and Concrete Aggregate</b>	S-1	NA	2.7				
	-3.0	<b>Sandy Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, some fine sand, stiff massive	S-2	NA	3.0		Sampled (6-8)		
	-4.0	As above, moist to wet (6')							
5.0	4.0								
	-8.0	As above							
	-9.0	<b>Poorly Graded Sand</b> Brown, wet, mostly fine sand, trace gravel, massive, loose	S-3	NA	4.0				
10.0	9.0								
	-12.0	As above							
	-12.0		S-4	NA	4.0				
15.0	12.0								
	-16.0	End of Borehole							
20.0	16.0								

Drilled By: Trec Environmental Inc.

Drill Rig Type: Geoprobe LT54 Track Mounted Rig

Drill Method: Direct Push w/ 4' macro-core

Comments:

Drill Date(s): 5-23-16

Hole Size: 3"

Stick-up: NA

Datum:

Sheet: 1 of 1

Project No: 0092-016-001

Borehole Number: RI MW-2



Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.8	<b>Fill</b> Black, moist, mostly ash, some fine to coarse sand, loose	S-1	NA	2.7				
	0.8	<b>Silty Sand</b> Brown, moist, mostly fine sand, some non-plastic fines, loose when disturbed, massive							
	-4.0	<b>Sandy Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, some fine sand, stiff massive	S-2	NA	3.2				
5.0	4.0							2" PVC Riser Bentonite chips 2" PVC Screen, 0.010" slot 00N Silica Sand First water @ 10 fbgs Sampled (8-10')	
	-8.0	As above, moist to wet (10')	S-3	NA	4.0				
	8.0								
	-12.0	As above, wet	S-4	NA	4.0				
	12.0								
15.0	-16.0	End of Borehole							
	16.0								
20.0									

Drilled By: Trec Environmental Inc.

Drill Rig Type: Geoprobe LT54 Track Mounted Rig

Drill Method: Direct Push w/ 4' macro-core

Comments:

Drill Date(s): 5-23-16

Hole Size: 3"

Stick-up: NA

Datum:

Sheet: 1 of 1

Project No: 0092-016-001

Borehole Number: RI MW-3

Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB



Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
-1.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.8	<b>Sandy Lean Clay</b> Reddish brown, moist to wet (1'), mostly medium plasticity fines, some fine sand, stiff massive	S-1	NA	3.6				
	0.8								
	-4.0	As above, wet	S-2	NA	3.8				
4.0	4.0								
	-8.0	As above	S-3	NA	4.0				
9.0	8.0								
	-12.0	As above	S-4	NA	4.0				
14.0	12.0								
	-16.0	End of Borehole							
19.0	16.0								

Drilled By: Trec Environmental Inc.

Drill Rig Type: Geoprobe LT54 Track Mounted Rig

Drill Method: Direct Push w/ 4' macro-core

Comments:

Drill Date(s): 5-25-16

Hole Size: 3"

Stick-up: NA

Datum:

Sheet: 1 of 1

**Project No:** 0092-016-001

**Borehole Number:** RI MW-4

**Project:** Remedial Investigation

**A.K.A.:**

**Client:** The Krog Group, LLC.

**Logged By:** PWW

**Site Location:** 791 Washington Street, Buffalo, NY

**Checked By:** CZB



Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-1.0	<b>Silty Sand</b> Brown, moist to wet (1'), mostly fine sand, some non-plastic fines, medium dense, massive	S-1	NA	2.4				
	1.0								
	-4.0	As above, wet							
5.0	4.0		S-2	NA	3.2				
	-8.0	As above							
10.0	8.0		S-3	NA	4.0				
	-12.0	As above							
15.0	12.0		S-4	NA	4.0				
	-16.0	End of Borehole							
	16.0								
20.0									

**Drilled By:** Trec Environmental Inc.

**Drill Rig Type:** Geoprobe LT54 Track Mounted Rig

**Drill Method:** Direct Push w/ 4' macro-core

**Comments:**

**Drill Date(s):** 5-25-16

**Hole Size:** 3"

**Stick-up:** NA

**Datum:**

**Sheet:** 1 of 1

Project No: 0092-016-001

Borehole Number: RI MW-5



Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
-1.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-1.0	<b>Lean Clay</b> Reddish brown, moist to wet (3'), mostly medium plasticity fines, few fine sand, firm, massive	S-1	NA	1.9				
	1.0								
	-4.0	As above, wet	S-2	NA	2.9			Sampled (6-8') January 31, 2000	
4.0	4.0								
	-8.0	<b>Silty Sand</b> Reddish brown, wet, mostly fine sand, some non-plastic fines, medium dense, massive	S-3	NA	4.0				
9.0	8.0								
	-12.0	As above	S-4	NA	4.0			00N Silica Sand	
	12.0								
14.0	-16.0	End of Borehole							
	16.0								
19.0									

Drilled By: Trec Environmental Inc.

Drill Rig Type: Geoprobe LT54 Track Mounted Rig

Drill Method: Direct Push w/ 4' macro-core

Comments:

Drill Date(s): 5-26-16

Hole Size: 3"

Stick-up: NA

Datum:

Sheet: 1 of 1

Project No: 0092-016-001

Borehole Number: RI MW-6



Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.8	<b>Poorly Graded Gravel</b> Blackish brown, wet, mostly sub-rounded fine gravel, trace black fine sand	S-1	NA	1.6				
	0.8	<b>Silty Sand</b> Reddish brown, moist, mostly fine sand, some non-plastic fines, medium dense, massive							
	-4.0	<b>Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, few fine sand, firm, massive	S-2	NA	3.0		Sampled (4-7')		
	4.0								
	-7.0	<b>Silty Sand</b> Reddish brown, moist to wet (7'), mostly fine sand, some non-plastic fines, medium dense, massive							
	7.0	As above							
	-8.0		S-3	NA	4.0				
	8.0								
	-12.0	As above							
	12.0		S-4	NA	4.0				
	-15.0								
	-16.0								
	16.0	End of Borehole							
20.0									

Drilled By: Trec Environmental Inc.

Drill Rig Type: Geoprobe LT54 Track Mounted Rig

Drill Method: Direct Push w/ 4' macro-core

Comments:

Drill Date(s): 5-25-16

Hole Size: 3"

Stick-up: NA

Datum:

Sheet: 1 of 1



Project No: 0092-016-001

Borehole Number: RI MW-7



Project: Remedial Investigation

A.K.A.:

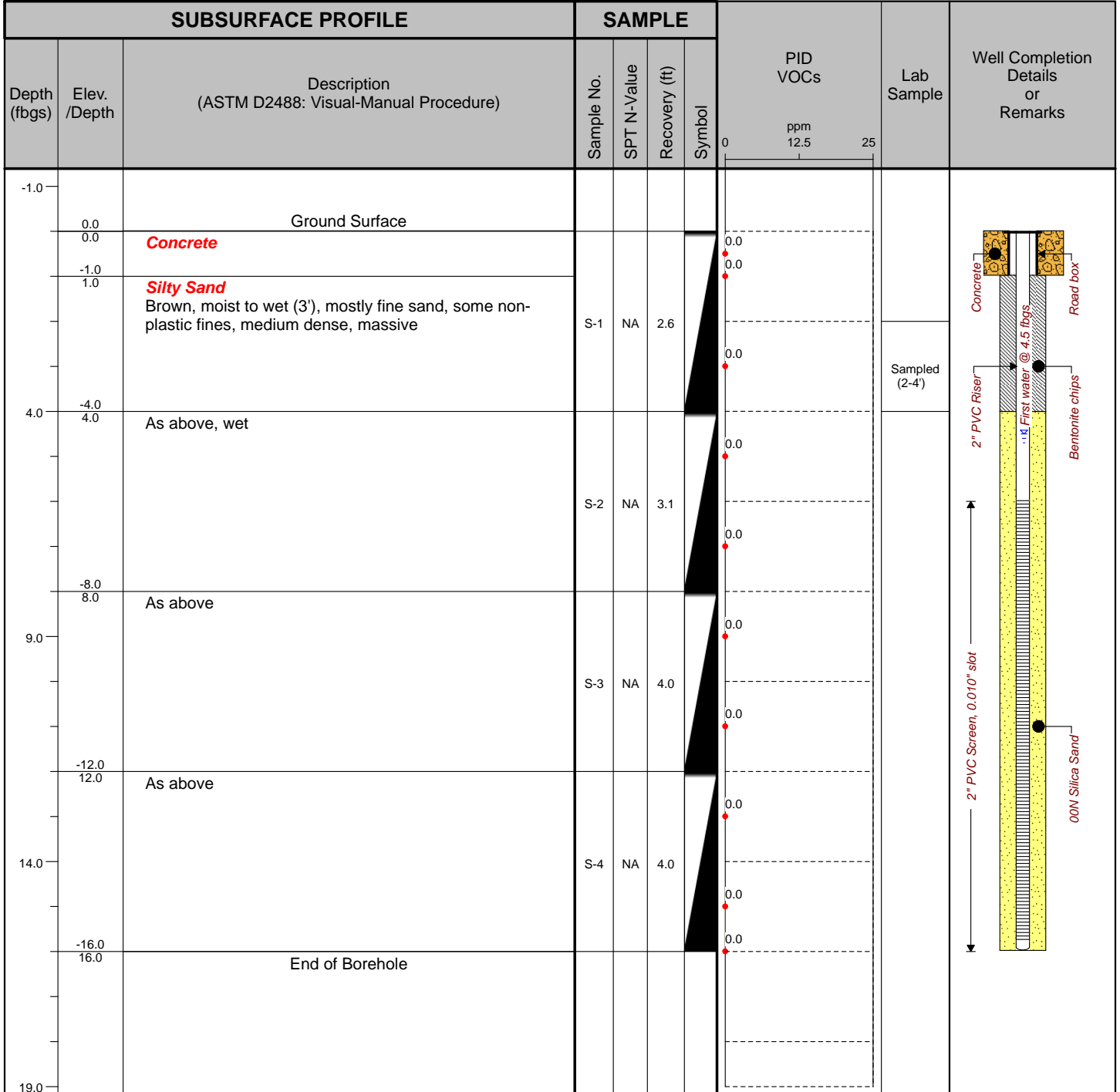
Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599



Drilled By: Trec Environmental Inc.  
 Drill Rig Type: Geoprobe LT54 Track Mounted Rig  
 Drill Method: Direct Push w/ 4' macro-core  
 Comments:  
 Drill Date(s): 5-26-16

Hole Size: 3"  
 Stick-up: NA  
 Datum:

Sheet: 1 of 1

Project No: 0092-016-001

Borehole Number: RI MW-8



Project: Remedial Investigation

A.K.A.:

Client: The Korg Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
-1.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-1.0	<b>Silty Sand</b> Brown, moist to wet (3'), mostly fine sand, some non-plastic fines, medium dense, massive	S-1	NA	2.1		Sampled (0-2')		
	1.0								
	4.0	As above, wet	S-2	NA	3.6				
	-4.0								
	4.0	As above							
	-8.0	As above	S-3	NA	4.0				
	8.0								
	-12.0	As above	S-4	NA	4.0				
	12.0								
	-16.0	End of Borehole							
	16.0								
	-19.0								

Drilled By: Trec Environmental Inc.  
 Drill Rig Type: Geoprobe LT54 Track Mounted Rig  
 Drill Method: Direct Push w/ 4' macro-core  
 Comments:  
 Drill Date(s): 5-26-16

Hole Size: 3"  
 Stick-up: NA  
 Datum:  
 Sheet: 1 of 1

Project No: 0092-016-001

Borehole Number: RI MW-9



Project: Remedial Investigation

A.K.A.:

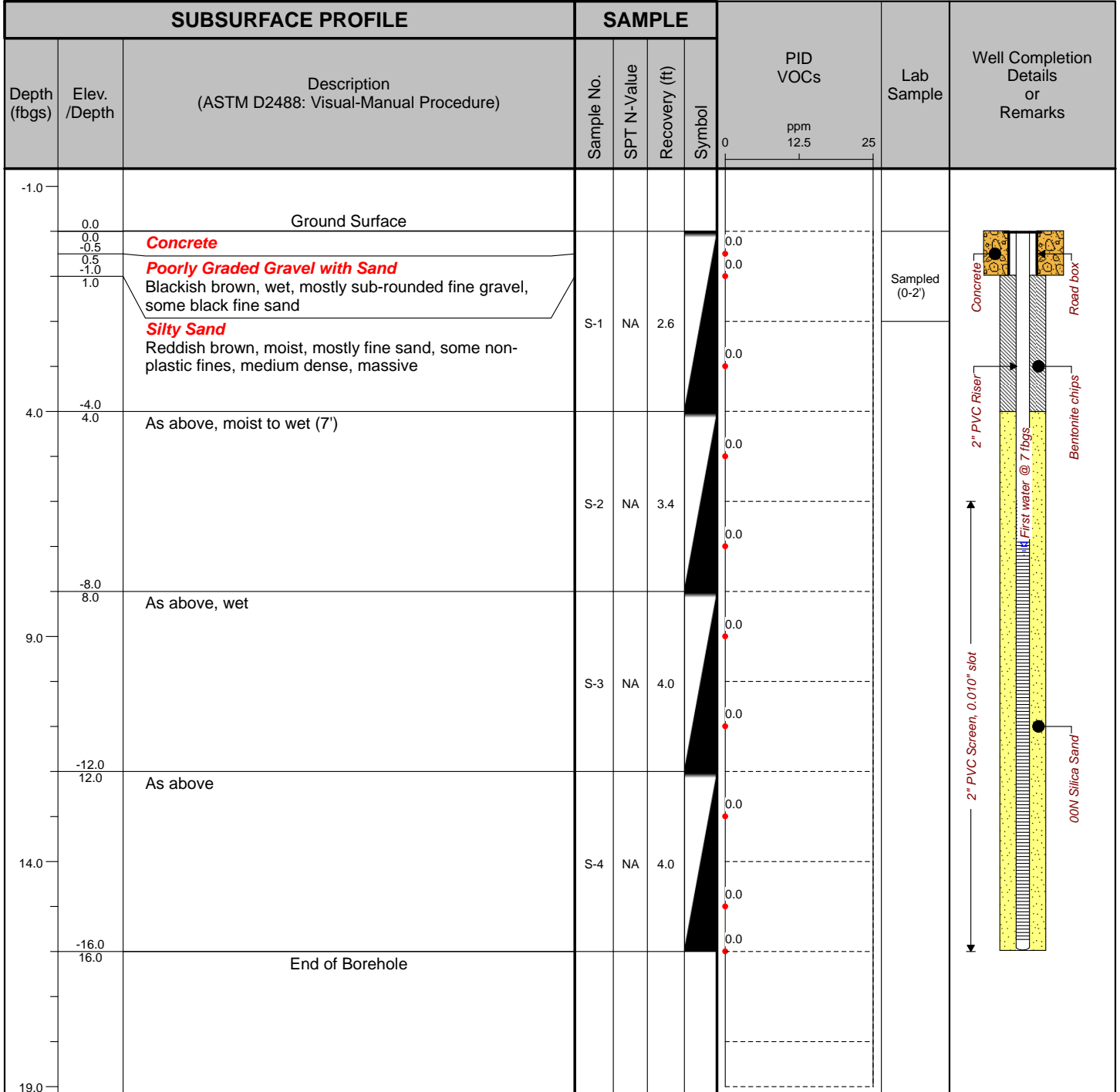
Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599



Drilled By: Trec Environmental Inc.  
 Drill Rig Type: Geoprobe LT54 Track Mounted Rig  
 Drill Method: Direct Push w/ 4' macro-core  
 Comments:  
 Drill Date(s): 5-26-16

Hole Size: 3"  
 Stick-up: NA  
 Datum:  
 Sheet: 1 of 1

Project No: 0092-016-001

Borehole Number: RI MW-10



Project: Remedial Investigation

A.K.A.:

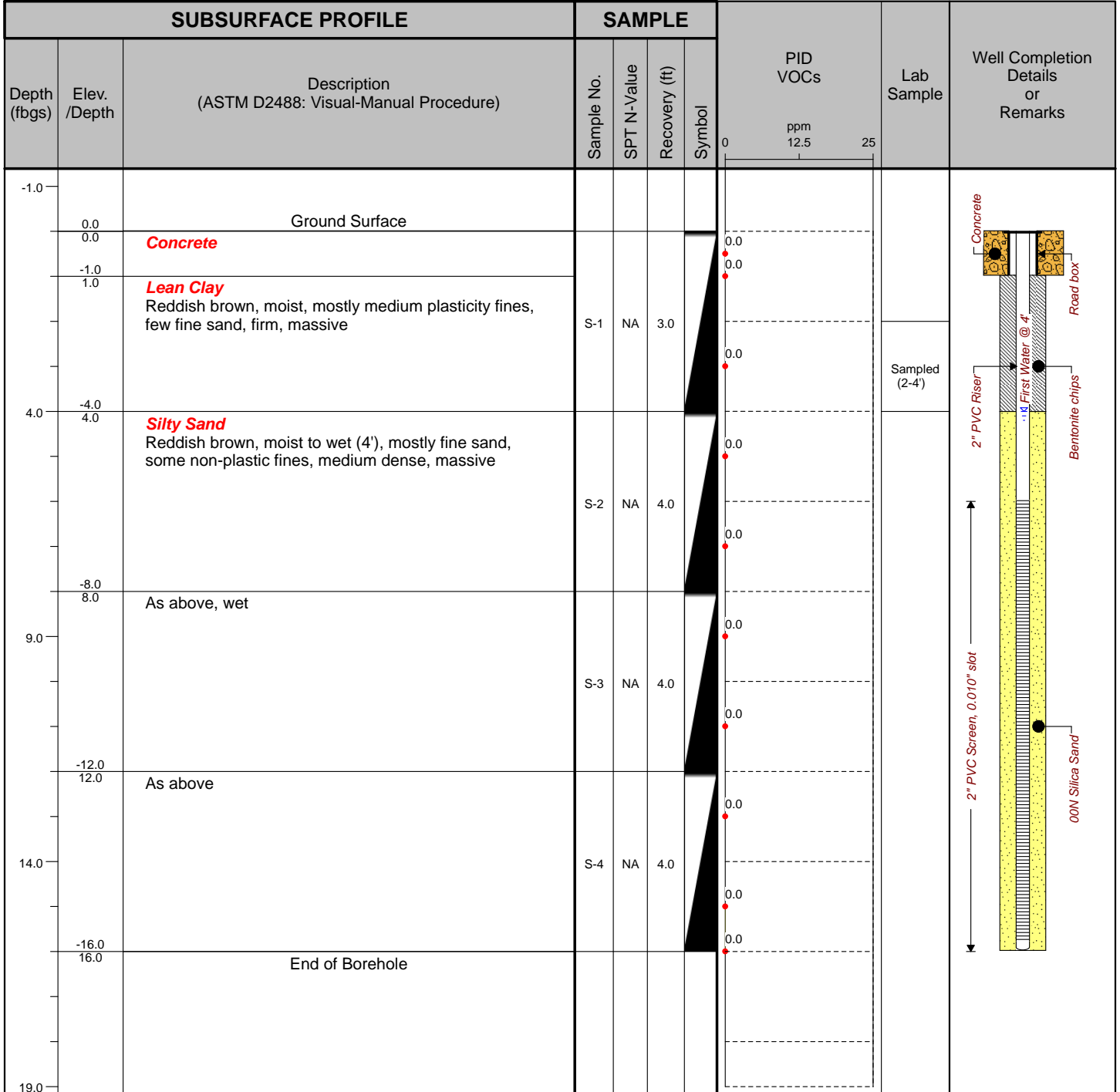
Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599



Drilled By: Trec Environmental Inc.

Drill Rig Type: Geoprobe LT54 Track Mounted Rig

Drill Method: Direct Push w/ 4' macro-core

Comments:

Drill Date(s): 5-26-16

Hole Size: 3"

Stick-up: NA

Datum:

Sheet: 1 of 1

Project No: 0092-016-001-005-001

Borehole Number: RIMW-11

Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC

Logged By: TAB

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB



TurnKey Environmental Restoration, LLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
		<b>Concrete Sidewalk.</b>							
		<b>Poorly Graded Gravel</b> Grey, moist, mostly angular gravel (sidewalk sub-base), trace non-plastic fines, loose.							
		<b>Alternating Fine Sand and Clay.</b> Hand Cleared to 5.0 fbgs, Brown, moist, mostly, fine sand with medium plasticity fines, medium dense to stiff.							
5.0	5.0	<b>Poorly Graded Sand with Silt</b> Reddish brown, moist, mostly fine sand, few non-plastic fines, medium dense, loose when disturbed.	S1	12	1.0		0.0		
6.0	6.0	<b>Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, trace fine sand, medium toughness, medium dry strength, stiff, massive.	S2	9	1.6		0.0		
7.0	7.0								
8.0	8.0	<b>Poorly Graded Sand with Silt</b> As (5.0 to 5.25 fbgs) above, loose.	S3	12	1.7		0.0		
10.0	10.0	<b>Lean Clay</b> As (5.25 to 6.0 fbgs) above, trace sub-rounded gravel.							
11.0	11.0	<b>Silty Sand</b> Reddish brown, wet (10.0 fbgs), mostly fine sand, some non-plastic fines, dense, rapid dilatancy.	S4	31	1.8		0.0		
12.0	12.0	<b>Sandy Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, some fine sand, medium toughness, medium dry strength, massive, hard.	S5	48	1.0		0.0		
14.0	14.0	<b>Silty Sand</b> As (10.0 to 11.0 fbgs) above, trace medium plasticity fines, very dense, slow dilatancy.	S6	41	1.6		0.0		
15.0	15.0								
16.0	16.0	<b>Sandy Lean Clay</b> As (11.0 to 12.0 fbgs), above, moist, stiff.	S7	11	1.7		0.0		
18.0	18.0								
20.0	20.0	As above, trace sub-rounded fine gravel, very stiff.	S8	18	1.9		0.0		

Drilled By: Nature's Way Environmental  
 Drill Rig Type: CME 550  
 Drill Method: Continuous split spoon.  
 Comments:  
 Drill Date(s): 11/14/16

Hole Size: 8 1/2-inch.  
 Stick-up: NA  
 Datum: NA  
 Sheet: 1 of 2

**Project No:** 0092-016-001-005-001

**Borehole Number:** RIMW-11

**Project:** Remedial Investigation

**A.K.A.:**

**Client:** The Krog Group, LLC

**Logged By:** TAB

**Site Location:** 791 Washington Street, Buffalo, NY

**Checked By:** CZB



**TurnKey Environmental Restoration, LLC**  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
	21.0	<b>Silty Sand</b>	S9	22	1.8	▲	0.0	<p>2" PVC Screen, 0.010" slot (36.0 to 28.0 fbgs)</p> <p>Bentonite chips</p> <p>00N Silica Sand</p>	
	21.5	As (10.0 to 11.0fbgs) above, medium dense.				▲	0.0		
	22.0	<b>Clayey Sand</b>	S10	12	1.7	▲	0.0		
		Reddish Brown, moist, mostly fine sand, little low plasticity fines, dense.				▲	0.0		
	24.0	<b>Sandy Lean Clay</b>				▲	0.0		
		As (16.0 to 18.0 fbgs) above, wet.				▲	0.0		
25.0			S11	13	1.4	▲	0.0		
	26.0	As above, hard.				▲	0.0		
	27.0	<b>Silty Sand</b>	S12	23	1.7	▲	0.0		
		As (21.0 to 21.5 fbgs) above, dense.				▲	0.0		
	28.0		S13	17	1.6	▲	0.0		
	29.8	<b>Sandy Lean Clay</b>				▲	0.0		
		As (22.0 to 24.0fbgs) above, very stiff.				▲	0.0		
	32.0	<b>Silty Sand</b>	S14	19	1.1	▲	0.0		
		As (27.0 to 28.0 fbgs) above.				▲	0.0		
	34.0	As above, dense.	S15	19	1.3	▲	0.0		
35.0			S16	25	1.2	▲	0.0		
	35.5	<b>Sandy Lean Clay</b>				▲	0.0		
	36.0	As (29.75 to 30.0 fbgs) above.				▲	0.0		
		End of Borehole							

**Drilled By:** Nature's Way Environmental  
**Drill Rig Type:** CME 550  
**Drill Method:** Continuous split spoon.  
**Comments:**  
**Drill Date(s):** 11/14/16

**Hole Size:** 8 1/2-inch.  
**Stick-up:** NA  
**Datum:** NA  
**Sheet:** 2 of 2

Project No: 0092-016-001-005-001

Borehole Number: RIMW-12

Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC

Logged By: TAB

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB



TurnKey Environmental Restoration, LLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.4	<b>Concrete</b> Sidewalk.						<p>Concrete</p> <p>2" PVC Riser</p> <p>Cemnt/Bentonite grout</p> <p>First water 8.0 fbgs.</p>	
	0.8	<b>Poorly Graded Gravel</b> Grey, moist, mostly angular gravel (sidewalk sub-base), trace non-plastic fines, loose.					0.0		
		<b>Alternating Fine Sand and Clay.</b> Hand Cleared to 5.0 fbgs, Brown, moist, mostly, fine sand with medium plasticity fines, medium dense to stiff.					0.0		
5.0	5.0	<b>Lean Clay with Sand</b> Reddish brown, moist, mostly medium plasticity fines, trace fine sand, medium toughness, medium dry strength, stiff, massive.	S1	11	0.9		0.0		
	5.5								
	6.0	<b>Silty Sand</b> Reddish brown, moist, mostly fine sand, some non-plastic fines, dense..	S2	20	1.5		0.0		
		<b>Sandy Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, some fine sand, medium toughness, medium dry strength, massive, very stiff.							
	8.0	<b>Silty Sand</b> As (5.5 to 6.0 fbgs) above, wet (8.0 fbgs), medium dense, rapid dilatancy.	S3	23	1.2		0.0		
	10.0		S4	29	1.4		0.0		
	12.0								
	13.0	<b>Sandy Lean Clay</b> As (8.0 to 10.0 fbgs) above.	S5	18	1.3		0.0		
	13.5								
	14.0						0.0		

Drilled By: Nature's Way Environmental  
 Drill Rig Type: CME 550  
 Drill Method: Continuous split spoon.  
 Comments:  
 Drill Date(s): 11/21/16

Hole Size: 8 1/2-inch  
 Stick-up: NA  
 Datum: NA  
 Sheet: 1 of 3

Project No: 0092-016-001-005-001

Borehole Number: RIMW-12

Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC

Logged By: TAB

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB



TurnKey Environmental Restoration, LLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
		<b>Silty Sand</b> As (8.0 to 10.0 fbgs) above, medium dense, slow dilatency. As above, very dense.	S6	50	1.1		0.0		
	16.0	<b>Sandy Lean Clay</b> As (13.0 to 13.5 fbgs), above, moist, stiff.	S7	16	1.7		0.0		
	18.0	As above, trace sub-rounded fine gravel, very stiff.					0.0		
	19.0	<b>Silty Sand</b> As (13.5 to 14.0 fbgs) above.	S8	18	1.6		0.0		
	20.0								
	20.5	<b>Sandy Lean Clay</b> As (16.0 to 18.0 fbgs) above.	S9	22	1.5		0.0		
	22.0	<b>Clayey Sand</b> Reddish Brown, wet, mostly fine sand, some medium plasticity fines, slow dilatency, dense.	S10	31	1.2		0.0		
	24.0	<b>Silty Sand</b> As (20.0 to 20.5fbgs) above, dense.	S11	33	1.4		0.0		
	26.0	As above, hard.							
	28.0	<b>Sandy Lean Clay</b> As (20.5 to 22.0 fbgs) above, hard.	S12	50	1.4		0.0		
	28.5								
	29.0		S13	53	1.3		0.0		Bentonite chips

Drilled By: Nature's Way Environmental  
 Drill Rig Type: CME 550  
 Drill Method: Continuous split spoon.  
 Comments:  
 Drill Date(s): 11/21/16

Hole Size: 8 1/2-inch  
 Stick-up: NA  
 Datum: NA  
 Sheet: 2 of 3



Project No: 0092-016-001-005-001

Borehole Number: RIMW-12

Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC

Logged By: TAB

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB



TurnKey Environmental Restoration, LLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
		<b>Silty Sand</b> As (24.0 to 26.0 fbgs) very dense.	S13	33		▲	0.0		
	30.0	As above, trace sub-rounded fine gravel.							
	30.5	<b>Sandy Lean Clay</b> As (28.0 to 28.5 fbgs) above.	S14	40	1.3	▲	0.0		
	31.5	<b>Silty Sand</b> As (28.5 to 30.0 fbgs) above, very dense.							
	32.0		S15	62	1.4	▲	0.0		
	34.0	<b>Sandy Lean Clay</b> As (30.5 to 31.5 fbgs) above.							
	34.5	<b>Silty Sand</b> As (31.5 to 32.0 fbgs) above.	S16	81	1.4	▲	0.0		
	36.0								
	37.0	<b>Sandy Lean Clay</b> As (34.0 to 34.5 fbgs) above.	S17	54	1.3	▲			
	38.0	As above, stiff.							
	39.0		S18	14	1.7	▲			
	40.0	End of Borehole							

Drilled By: Nature's Way Environmental  
 Drill Rig Type: CME 550  
 Drill Method: Continuous split spoon.  
 Comments:  
 Drill Date(s): 11/21/16

Hole Size: 8 1/2-inch  
 Stick-up: NA  
 Datum: NA  
 Sheet: 3 of 3

Project No: 0092-016-001

Borehole Number: RI SB-12



Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.5	<b>Fill</b> Black, moist, mostly ash, some fine to coarse sand, loose							
	0.5	<b>Silty Sand</b> Brown, moist, mostly fine sand, some non-plastic fines, loose when disturbed, massive	S-1	NA	2.5		0.0	Sampled (2-4')	
	-4.0	As above					0.0		
5.0	4.0		S-2	NA	3.2		0.0		
	-7.0	<b>Sandy Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, some fine sand, stiff massive					0.0		
	7.0	As above					0.0		
	-8.0		S-3	NA	4.0		0.0		
	8.0						0.0		
10.0							0.0		
	-12.0	As above, moist to wet (13')					0.0		
	12.0		S-4	NA	4.0		0.0		
							0.0		
15.0							0.0		
	-16.0	End of Borehole					0.0		
	16.0						0.0		
20.0									

Drilled By: Trec Environmental Inc.

Drill Rig Type: Geoprobe LT54 Track Mounted Rig

Drill Method: Direct Push w/ 4' macro-core

Comments:

Drill Date(s): 5-23-16

Hole Size: 3"

Stick-up: NA

Datum:

Sheet: 1 of 1

**Project No:** 0092-016-001

**Borehole Number:** RI SB-13

**Project:** Remedial Investigation

**A.K.A.:**

**Client:** The Krog Group, LLC.

**Logged By:** PWW

**Site Location:** 791 Washington Street, Buffalo, NY

**Checked By:** CZB



Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface							
		<b>Concrete</b>							
	-1.0 1.0	<b>Gravel and Sand</b> Grey, moist, mostly fine to coarse gravel and, some fine to coarse sand, loose	S-1	NA	1.4				
	-4.0 4.0	Refusal on concrete							
		End of Borehole							
5.0									
10.0									
15.0									
20.0									

**Drilled By:** Trec Environmental Inc.  
**Drill Rig Type:** Geoprobe LT54 Track Mounted Rig  
**Drill Method:** Direct Push w/ 4' macro-core  
**Comments:**  
**Drill Date(s):** 5-23-16

**Hole Size:** 3"  
**Stick-up:** NA  
**Datum:**  
**Sheet:** 1 of 1

**Project No:** 0092-016-001

**Borehole Number:** RI SB-14

**Project:** Remedial Investigation

**A.K.A.:**

**Client:** The Krog Group, LLC.

**Logged By:** PWW

**Site Location:** 791 Washington Street, Buffalo, NY

**Checked By:** CZB



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SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface							
		<b>Concrete and Concrete Block</b>							
			S-1	NA	1.4				
	-3.0 3.0	<b>Void Space</b> Open void space							
5.0									
10.0	-11.0 11.0	Refusal on concrete @ 11 fbgs							
		End of Borehole							
15.0									
20.0									

**Drilled By:** Trec Environmental Inc.

**Drill Rig Type:** Geoprobe LT54 Track Mounted Rig

**Drill Method:** Direct Push w/ 4' macro-core

**Comments:**

**Drill Date(s):** 5-23-16

**Hole Size:** 3"

**Stick-up:** NA

**Datum:**

**Sheet:** 1 of 1

Project No: 0092-016-001

Borehole Number: RI SB-16



Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

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 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Asphalt and Concrete Aggregate</b>							
	-3.0		S-1	NA	2.7			Sampled (0-5')	
	3.0	<b>Sandy Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, some fine sand, stiff massive							
	-4.0	As above, moist to wet (6')							
5.0	4.0		S-2	NA	3.0				
	-8.0	As above							
	8.0								
	-9.0	<b>Poorly Graded Sand</b> Brown, wet, mostly fine sand, trace gravel, massive, loose	S-3	NA	4.0				
10.0	9.0								
	-12.0	As above							
	12.0		S-4	NA	4.0				
15.0									
	-16.0	End of Borehole							
	16.0								
20.0									

Drilled By: Trec Environmental Inc.

Drill Rig Type: Geoprobe LT54 Track Mounted Rig

Drill Method: Direct Push w/ 4' macro-core

Comments:

Drill Date(s): 5-26-16

Hole Size: 3"

Stick-up: NA

Datum:

Sheet: 1 of 1

Project No: 0092-016-001

Borehole Number: RI SB-17



Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.8	<b>Fill</b>							
	0.8	Black, moist, mostly ash, some fine to coarse sand, loose	S-1	NA	4.0				
		<b>Sandy Lean Clay</b>							
		Reddish brown, moist to wet (2'), mostly medium plasticity fines, some fine sand, stiff massive							
	-4.0	As above, wet							
5.0	4.0		S-2	NA	4.0			Sampled (4-6)	
		As above							
	-8.0								
	8.0	As above							
10.0			S-3	NA	4.0				
		As above							
	-12.0								
	12.0	As above							
15.0			S-4	NA	4.0				
		As above							
	-16.0								
	16.0	End of Borehole							
20.0									

Drilled By: Trec Environmental Inc.

Drill Rig Type: Geoprobe LT54 Track Mounted Rig

Drill Method: Direct Push w/ 4' macro-core

Comments:

Drill Date(s): 5-24-16

Hole Size: 3"

Stick-up: NA

Datum:

Sheet: 1 of 1

Project No: 0092-016-001

Borehole Number: RI SB-18



Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.8	<b>Fill</b> Black, moist, mostly ash, some fine to coarse sand, loose	S-1	NA	4.0		0.0	Sampled (2-4')	
	0.8	<b>Silty Sand</b> Brown, moist, mostly fine sand, some non-plastic fines, loose when disturbed, massive					0.0		
	-4.0	<b>Sandy Lean Clay</b> Reddish brown, moist to wet (6'), mostly medium plasticity fines, some fine sand, stiff massive	S-2	NA	4.0		0.0		
5.0	4.0								
	-8.0	As above, wet	S-3	NA	4.0		0.0		
10.0	8.0								
	-12.0	As above	S-4	NA	4.0		0.0		
15.0	12.0								
	-16.0	End of Borehole					0.0		
20.0	16.0								

Drilled By: Trec Environmental Inc.

Drill Rig Type: Geoprobe LT54 Track Mounted Rig

Drill Method: Direct Push w/ 4' macro-core

Comments:

Drill Date(s): 5-24-16

Hole Size: 3"

Stick-up: NA

Datum:

Sheet: 1 of 1

**Project No:** 0092-016-001

**Borehole Number:** RI SB-19



**Project:** Remedial Investigation

**A.K.A.:**

**Client:** The Krog Group, LLC.

**Logged By:** PWW

**Site Location:** 791 Washington Street, Buffalo, NY

**Checked By:** CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.8	<b>Fill</b>							
	0.8	Black, moist, mostly ash, some fine to coarse sand, loose	S-1	NA	4.0			Sampled (2-4')	
		<b>Sandy Lean Clay</b>							
		Reddish brown, moist to wet (2'), mostly medium plasticity fines, some fine sand, stiff massive							
	-4.0	As above, wet							
	4.0								
5.0			S-2	NA	4.0				
	-8.0	As above							
	8.0								
10.0			S-3	NA	4.0				
	-12.0	As above							
	12.0								
			S-4	NA	4.0				
15.0									
	-16.0	End of Borehole							
	16.0								
20.0									

**Drilled By:** Trec Environmental Inc.

**Drill Rig Type:** Geoprobe LT54 Track Mounted Rig

**Drill Method:** Direct Push w/ 4' macro-core

**Comments:**

**Drill Date(s):** 5-24-16

**Hole Size:** 3"

**Stick-up:** NA

**Datum:**

**Sheet:** 1 of 1



Project No: 0092-016-001

Borehole Number: RI SB-20



Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.8	<b>Fill</b>							
	0.8	Black, moist, mostly ash, some fine to coarse sand, loose	S-1	NA	4.0				
		<b>Sandy Lean Clay</b>							
		Reddish brown, moist to wet (2'), mostly medium plasticity fines, some fine sand, stiff massive							
	-4.0	As above, wet							
5.0	4.0		S-2	NA	4.0			Sampled (4-6)	
		As above							
	-8.0								
	8.0	As above							
10.0			S-3	NA	4.0				
		As above							
	-12.0								
	12.0	As above							
15.0			S-4	NA	4.0				
		As above							
	-16.0								
	16.0	End of Borehole							
20.0									

Drilled By: Trec Environmental Inc.  
 Drill Rig Type: Geoprobe LT54 Track Mounted Rig  
 Drill Method: Direct Push w/ 4' macro-core  
 Comments:  
 Drill Date(s): 5-24-16

Hole Size: 3"  
 Stick-up: NA  
 Datum:  
 Sheet: 1 of 1

Project No: 0092-016-001

Borehole Number: RI SB-21



Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.8	<b>Fill</b>							
	0.8	Black, moist, mostly ash, some fine to coarse sand, loose	S-1	NA	3.1				
		<b>Sandy Lean Clay</b>							
		Reddish brown, moist, mostly medium plasticity fines, some fine sand, stiff massive							
	-4.0	As above, moist to wet (6')	S-2	NA	4.0			Sampled (6-8')	
5.0	4.0								
	-8.0	As above, wet	S-3	NA	4.0				
	8.0								
10.0									
	-12.0	As above	S-4	NA	4.0				
	12.0								
15.0									
	-16.0	End of Borehole							
	16.0								
20.0									

Drilled By: Trec Environmental Inc.  
 Drill Rig Type: Geoprobe LT54 Track Mounted Rig  
 Drill Method: Direct Push w/ 4' macro-core  
 Comments:  
 Drill Date(s): 5-24-16

Hole Size: 3"  
 Stick-up: NA  
 Datum:  
 Sheet: 1 of 1

Project No: 0092-016-001

Borehole Number: RI SB-22



Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.8	<b>Fill</b>							
	0.8	Black, moist, mostly ash, some fine to coarse sand, loose	S-1	NA	4.0				
		<b>Sandy Lean Clay</b>							
		Reddish brown, moist, mostly medium plasticity fines, some fine sand, stiff massive							
	-4.0	As above, moist to wet (6')							
5.0	4.0		S-2	NA	4.0				
	-8.0	As above, wet						Sampled (8-10')	
10.0	8.0		S-3	NA	4.0				
	-12.0	As above							
	12.0		S-4	NA	4.0				
15.0									
	-16.0	End of Borehole							
	16.0								
20.0									

Drilled By: Trec Environmental Inc.

Drill Rig Type: Geoprobe LT54 Track Mounted Rig

Drill Method: Direct Push w/ 4' macro-core

Comments:

Drill Date(s): 5-24-16

Hole Size: 3"

Stick-up: NA

Datum:

Sheet: 1 of 1

Project No: 0092-016-001

Borehole Number: RI SB-23



Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.8	<b>Sandy Lean Clay</b> Reddish brown, moist to wet (1'), mostly medium plasticity fines, some fine sand, stiff massive	S-1	NA	2.8			Sampled (2-4')	
	0.8								
	-4.0	As above, wet							
5.0	4.0		S-2	NA	4.0				
	-8.0	As above							
10.0	8.0		S-3	NA	4.0				
	-12.0	As above							
15.0	12.0		S-4	NA	4.0				
	-16.0	End of Borehole							
	16.0								
20.0									

Drilled By: Trec Environmental Inc.

Drill Rig Type: Geoprobe LT54 Track Mounted Rig

Drill Method: Direct Push w/ 4' macro-core

Comments:

Drill Date(s): 5-24-16

Hole Size: 3"

Stick-up: NA

Datum:

Sheet: 1 of 1

Project No: 0092-016-001

Borehole Number: RI SB-24



Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC.

Logged By: PWW

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB

Benchmark Environmental Engineering & Science, PLLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.8	<b>Sandy Lean Clay</b>							
	0.8	Reddish brown, moist to wet (1'), mostly medium plasticity fines, some fine sand, stiff massive	S-1	NA	3.0				
	-4.0	As above, wet							
5.0	4.0		S-2	NA	4.0			Sampled (4-6)	
	-8.0	As above							
	8.0		S-3	NA	4.0				
10.0	-12.0	As above							
	12.0		S-4	NA	4.0				
15.0	-16.0	End of Borehole							
	16.0								
20.0									

Drilled By: Trec Environmental Inc.

Drill Rig Type: Geoprobe LT54 Track Mounted Rig

Drill Method: Direct Push w/ 4' macro-core

Comments:

Drill Date(s): 5-24-16

Hole Size: 3"

Stick-up: NA

Datum:

Sheet: 1 of 1

Project No: 0092-016-001-005-001

Borehole Number: RISB-25

Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC

Logged By: TAB

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB



TurnKey Environmental Restoration, LLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.4	Concrete floor							
	0.4	<b>Poorly Graded Gravel with Silt and Sand</b> Grey, moist, mostly sub-rounded fine gravel, little fine sand, trace non-plastic fines, medium dense loose when disturbed.							
		<b>Poorly Graded Sand with Silt</b> Reddish brown, wet (0.5 fbgs), mostly fine sand, few non-plastic fines, medium dense, rapid dilatancy.	C1	NA	3.2				
	-3.0	<b>Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, trace fine sand, stiff, medium toughness, medium dry strength, massive.							
	3.0								
	-4.0								
	4.0								
5.0									
			C2	NA	2.4				
	-8.0	<b>Lean Clay with Sand</b> Reddish brown, moist, mostly medium plasticity fines, little fine sand, stiff, medium toughness, medium dry strength.							
	8.0								
10.0									
			C3	NA	0.8				
	-11.5	End of boring 12.0 fbgs.							
	11.5								
	-12.0	End of Borehole							
	12.0								

Drilled By: Trec Environmental Inc.  
 Drill Rig Type: Geoprobe 54LT  
 Drill Method: Directpush w/4' macro-core.  
 Comments:  
 Drill Date(s): 11/14/16

Hole Size: 3-inch.  
 Stick-up: NA  
 Datum: NA  
 Sheet: 1 of 1

**Project No:** 0092-016-001-005-001

**Borehole Number:** RISB-26

**Project:** Remedial Investigation

**A.K.A.:**

**Client:** The Krog Group, LLC.

**Logged By:** TAB

**Site Location:** 791 Washington Street, Buffalo, NY

**Checked By:** CZB



**TurnKey Environmental Restoration, LLC**  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.4	Concrete floor							
	0.4	<b>Poorly Graded Gravel with Silt and Sand</b> Grey, moist, mostly sub-rounded fine gravel, little fine sand, trace non-plastic fines, medium dense loose when disturbed.							
		<b>Lean Clay</b> Reddish brown, wet, mostly medium plasticity fines, trace fine sand, stiff, medium toughness, medium dry strength, massive.	C1	NA	1.5		0.0		
							0.1		
							0.9		
	-4.0 4.0	As above, moist.					0.2		
			C2	NA	2.9		0.2		
							0.2		
							0.1		
	-8.0 8.0		C3	NA	2.5		0.0		
							0.0		
	-11.5 11.5	End of boring 12.0 fbgs.							
	-12.0 12.0	End of Borehole							

**Drilled By:** Trec Environmental Inc.  
**Drill Rig Type:** Geoprobe 54LT  
**Drill Method:** Directpush w/ 4' macro-core.  
**Comments:**  
**Drill Date(s):** 11/14/16

**Hole Size:** 3-inch.  
**Stick-up:** NA  
**Datum:** NA  
**Sheet:** 1 of 1

Project No: 0092-016-001-005-001

Borehole Number: RISB-27

Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC

Logged By: TAB

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB



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 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.4	Concrete floor							
	0.4	<b>Poorly Graded Gravel with Silt and Fill</b> Black, moist, mostly angular gravel, trace non-plastic fines, cinders, loose.							
		<b>Sandy Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, some fine sand, stiff, medium toughness, medium dry strength, massive.	C1	NA	2.5				
	-4.0								
	4.0								
5.0									
	-6.0								
	6.0	<b>Poorly Graded Sand with Silt</b> Reddish brown, wet (7.0 fbgs), mostly fine sand, few non-plastic fines, medium dense, rapid dilatancy.	C2	NA	3.6				
	-7.5								
	7.5	<b>Sandy Lean Clay</b> As above (0.60 to 4.0 fbgs).						Sample Location	
	-8.0								
	8.0								
10.0									
	-11.5								
	11.5	End of boring 12.0 fbgs.	C3	NA	2.6			Sample Location	
	-12.0								
	12.0	End of Borehole							

First water 7.0 fbgs.

Drilled By: Trec Environmental Inc.  
 Drill Rig Type: Geoprobe 54LT  
 Drill Method: Directpush w/ 4' macro-core  
 Comments:  
 Drill Date(s): 11/14/16

Hole Size: 3-inch.  
 Stick-up: NA  
 Datum: NA  
 Sheet: 1 of 1



**Project No:** 0092-016-001-005-001

**Borehole Number:** RISB-28

**Project:** Remedial Investigation

**A.K.A.:**

**Client:** The Krog Group, LLC

**Logged By:** TAB

**Site Location:** 791 Washington Street, Buffalo, NY

**Checked By:** CZB



**TurnKey Environmental Restoration, LLC**  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.4	Concrete floor							
	0.4	<b>Poorly Graded Gravel with Silt and Fill</b> Black, moist, mostly angular gravel, trace non-plastic fines, cinders, loose.					1.4		
		<b>Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, few fine sand, stiff, medium toughness, medium dry strength, massive.	C1	NA	3.7		1.4		
	-4.0								
	4.0								
5.0							3.3	Sample Location	
	-6.0								
	6.0	<b>Poorly Graded Sand with Silt</b> Reddish brown, wet (6.5 fbgs), mostly fine sand, few non-plastic fines, medium dense, rapid dilatency.	C2	NA	3.5		2.3		
	-8.0								
	8.0								
10.0									
	-11.5								
	11.5	End of boring 12.0 fbgs.					1.4		
	-12.0								
	12.0	End of Borehole							

First water 6.5 fbgs.

**Drilled By:** Trec Environmental Inc.  
**Drill Rig Type:** Geoprobe 54LT  
**Drill Method:** Directpush w/ 4' macro-core.  
**Comments:**  
**Drill Date(s):** 11/14/16

**Hole Size:** 3-inch.  
**Stick-up:** NA  
**Datum:** NA  
**Sheet:** 1 of 1

**Project No:** 0092-016-001-005-001

**Borehole Number:** RISB-29

**Project:** Remedial Investigation

**A.K.A.:**

**Client:** The Krog Group, LLC

**Logged By:** TAB

**Site Location:** 791 Washington Street, Buffalo, NY

**Checked By:** CZB



**TurnKey Environmental Restoration, LLC**  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.4	Concrete floor							
	0.4	<b>Poorly Graded Gravel with Silt and Fill</b> Black, moist, mostly angular gravel, trace non-plastic fines, cinders, loose.							
		<b>Lean Clay with Sand</b> Reddish brown, moist, mostly low plasticity fines, little fine sand, stiff, medium toughness, medium dry strength, massive.	C1	NA	3.9				
	-4.0								
	4.0	<b>Poorly Graded Sand</b> Brown, moist, mostly fine sand, trace non-plastic fines, medium dense, loose when disturbed.							
	-4.5								
	4.5	<b>Poorly Graded Sand with Silt</b> Reddish brown, wet (7.0 fbgs), mostly fine sand, few non-plastic fines, medium dense, rapid dilatancy.	C2	NA	2.5				
5.0									
	-7.0								
	7.0	<b>Sandy Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, some fine sand, stiff, medium toughness, medium dry strength, massive.							
	-8.0								
	8.0	<b>Silty Sand</b> Reddish brown, wet, mostly fine sand, some non-plastic fines, medium dense, rapid dilatancy.							
	-10.0								
	10.0	<b>Sandy Lean Clay</b> As (7.0 to 8.0 fbgs) above.	C3	NA	1.8				
10.0									
	-11.5								
	11.5	End of boring 12.0 fbgs.							
	-12.0								
	12.0	End of Borehole							

First water 7.0 fbgs.

**Drilled By:** Trec Environmental Inc.  
**Drill Rig Type:** Geoprobe 54LT  
**Drill Method:** Directpush w/4' macro-core.  
**Comments:**  
**Drill Date(s):** 11/14/16

**Hole Size:** 3-inch.  
**Stick-up:** NA  
**Datum:** NA  
**Sheet:** 1 of 1

Project No: 0092-016-001-005-001

Borehole Number: RISB-30

Project: Remedial Investigation

A.K.A.:

Client: The Krog Group, LLC

Logged By: TAB

Site Location: 791 Washington Street, Buffalo, NY

Checked By: CZB



TurnKey Environmental Restoration, LLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.4	Concrete floor							
	-1.0	<b>Poorly Graded Gravel with Silt and Fill</b> Black, moist, mostly angular gravel, trace non-plastic fines, cinders, loose.					0.0		
	-1.0	<b>Poorly Graded Sand</b> Brown, moist, mostly fine sand, trace non-plastic fines, medium dense, loose when disturbed.							
	-3.5	<b>Sandy Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, some fine sand, stiff, medium toughness, medium dry strength, massive.	C1	NA	2.9		0.0		
	-4.0	<b>Poorly Graded Sand with Silt</b> Reddish brown, moist, mostly fine sand, few non-plastic fines, medium dense, rapid dilatency.							
5.0	-4.0	As above, wet (7.0 fbgs).	C2	NA	1.9		0.1		
	-8.0	As above.					0.2		
10.0	-10.0	<b>Sandy Lean Clay</b> As (1.0 to 3.5fbgs) above.	C3	NA	2.8		0.3		
	-11.5	End of boring 12.0 fbgs.					0.3		
	-12.0	End of Borehole							

First water 7.0 fbgs.

Drilled By: Trec Environmental Inc.  
 Drill Rig Type: Geoprobe 54LT  
 Drill Method: Directpush w/4' macro-core  
 Comments:  
 Drill Date(s): 11/14/16

Hole Size: 3-inch.  
 Stick-up: NA  
 Datum: NA  
 Sheet: 1 of 1

**Project No:** 0092-016-001-005-001

**Borehole Number:** RISB-31

**Project:** Remedial Investigation

**A.K.A.:**

**Client:** The Krog Group, LLC

**Logged By:** TAB

**Site Location:** 791 Washington Street, Buffalo, NY

**Checked By:** CZB



**TurnKey Environmental Restoration, LLC**  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.4	Concrete floor							
	-0.4	<b>Poorly Graded Gravel with Silt and Fill</b> Black, moist, mostly angular gravel, trace non-plastic fines, cinders, loose.							
		<b>Poorly Graded Sand</b> Brown, moist, mostly fine sand, trace non-plastic fines, medium dense, loose when disturbed.	C1	NA	1.8				
	-4.0								
	4.0								
5.0									
	-6.0								
	6.0	<b>Sandy Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, some fine sand, medium toughness, medium dry strength, massive.	C2	NA	2.8				
	-6.5								
	6.5	<b>Silty Sand</b> Reddish brown, wet (7.0 fbgs), mostly fine sand, little non-plastic fines, medium dense, rapid dilatancy.							
	-8.0								
	8.0								
10.0									
	-10.0	<b>Sandy Lean Clay</b> As (6.0 to 6.5 fbgs) above.	C3	NA	2.1				
	10.0								
	-11.5								
	11.5	End of boring 12.0 fbgs.							
	-12.0								
	12.0	End of Borehole							

-1- First water 7.0 fbgs.

**Drilled By:** Trec Environmental Inc.  
**Drill Rig Type:** Geoprobe 54LT  
**Drill Method:** Directpush w/ 4' macro-core.  
**Comments:**  
**Drill Date(s):** 11/14/16

**Hole Size:** 3-inch.  
**Stick-up:** NA  
**Datum:** NA  
**Sheet:** 1 of 1

**Project No:** 0092-016-001-005-001

**Borehole Number:** RISB-32

**Project:** Remedial Investigation

**A.K.A.:**

**Client:** The Krog Group, LLC

**Logged By:** TAB

**Site Location:** 791 Washington Street, Buffalo, NY

**Checked By:** CZB



**TurnKey Environmental Restoration, LLC**  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b> Concrete floor							
	-0.4	<b>Poorly Graded Gravel with Silt and Fill</b> Black, moist, mostly angular gravel, trace non-plastic fines, cinders, loose.  <b>Poorly Graded Sand</b> Brown, moist, mostly fine sand, trace non-plastic fines, medium dense, loose when disturbed.  <b>Sandy Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, some fine sand, medium toughness, medium dry strength, massive.					1.4		
	-1.0							2.5	
	-4.0			C1	NA	3.6			
	4.0								
	5.0		C2	NA	2.2				
	-6.5	<b>Silty Sand</b> Reddish brown, wet (8.0 fbgs), mostly fine sand, little non-plastic fines, medium dense, rapid dilatancy.							
	6.5							15.3	
	-8.0								
	8.0								
	10.0		C3	NA	1.5				
	-11.5								
	11.5	End of boring 12.0 fbgs.							
	-12.0								
	12.0	End of Borehole							

First water 8.0 fbgs.

**Drilled By:** Trec Environmental Inc.  
**Drill Rig Type:** Geoprobe 54LT  
**Drill Method:** Directpush w/ 4' macro-core.  
**Comments:**  
**Drill Date(s):** 11/14/16

**Hole Size:** 3-inch.  
**Stick-up:** NA  
**Datum:** NA  
**Sheet:** 1 of 1

**Project No:** 0092-016-001-005-001

**Borehole Number:** RISB-33

**Project:** Remedial Investigation

**A.K.A.:**

**Client:** The Krog Group, LLC

**Logged By:** TAB

**Site Location:** 791 Washington Street, Buffalo, NY

**Checked By:** CZB



**TurnKey Environmental Restoration, LLC**  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.4	Concrete floor							
	-0.4	<b>Poorly Graded Gravel with Silt and Fill</b> Black, moist, mostly angular gravel, trace non-plastic fines, cinders, loose.					0.6		
		<b>Sandy Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, some fine sand, medium toughness, medium dry strength, massive.	C1	NA	3.8		1.6		
	-4.0								
	4.0								
5.0							1.4		
			C2	NA	2.7				
	-7.0	As above, wet (7.0 fbgs).					1.8		
	7.0								
	-8.0	<b>Silty Sand</b> Reddish brown, wet, mostly fine sand, little non-plastic fines, medium dense, rapid dilatancy.					1.9		
	8.0								
10.0			C3	NA	2.5				
							3.6		
	-11.5	End of boring 12.0 fbgs.							
	11.5								
	-12.0	End of Borehole							
	12.0								

First water 7.0 fbgs.

**Drilled By:** Trec Environmental Inc.  
**Drill Rig Type:** Geoprobe 54LT  
**Drill Method:** Directpush w/ 4' macro-core.  
**Comments:**  
**Drill Date(s):** 11/14/16

**Hole Size:** 3-inch.  
**Stick-up:** NA  
**Datum:** NA  
**Sheet:** 1 of 1

**Project No:** 0092-016-001-005-001

**Borehole Number:** RISB-34

**Project:** Remedial Investigation

**A.K.A.:**

**Client:** The Krog Group, LLC

**Logged By:** TAB

**Site Location:** 791 Washington Street, Buffalo, NY

**Checked By:** CZB



**TurnKey Environmental Restoration, LLC**  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Concrete</b>							
	-0.4	Concrete floor							
	0.4	<b>Poorly Graded Gravel with Silt and Fill</b> Black, moist, mostly angular gravel, trace non-plastic fines, cinders, loose.							
		<b>Sandy Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, some fine sand, medium toughness, medium dry strength, massive.	C1	NA	1.7				
	-3.5	<b>Silty Sand</b> Reddish brown, moist, mostly fine sand, little non-plastic fines, medium dense, rapid dilatancy.							
	3.5	<b>Sandy Lean Clay</b> As (0.6 to 3.5 fbgs) above.							
	-4.0	<b>Silty Sand</b> As (3.5 to 4.0 fbgs) above, wet at (7.0 fbgs).	C2	NA	2.7				
	4.0	<b>Sandy Lean Clay</b> As (0.6 to 3.5 fbgs) above.							
5.0	-6.0								
	6.0								
	-8.0								
	8.0								
10.0	-10.0	<b>Sandy Lean Clay</b> As (0.6 to 3.5 fbgs) above.	C3	NA	3.1				
	10.0								
	-11.5	End of boring 12.0 fbgs.							
	11.5								
	-12.0	End of Borehole							
	12.0								

First water 7.0 fbgs.

**Drilled By:** Trec Environmental Inc.  
**Drill Rig Type:** Geoprobe 54LT  
**Drill Method:** Directpush w/ 4' macro-core.  
**Comments:**  
**Drill Date(s):** 11/14/16

**Hole Size:** 3-inch.  
**Stick-up:** NA  
**Datum:** NA  
**Sheet:** 1 of 1

**Project No:** 0092-016-001-005-001

**Borehole Number:** RISB-35

**Project:** Remedial Investigation

**A.K.A.:**

**Client:** The Krog Group, LLC

**Logged By:** TAB

**Site Location:** 791 Washington Street, Buffalo, NY

**Checked By:** CZB



**TurnKey Environmental Restoration, LLC**  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	Concrete floor							
	-0.4								
	0.4	<b>Poorly Graded Gravel with Silt and Fill</b> Black, moist, mostly angular gravel, trace non-plastic fines, cinders, loose.					0.0		
	-1.0								
	1.0	<b>Poorly Graded Sand</b> Brown, moist, mostly, fine sand, trace non-plastic fines, medium dense, loose when disturbed.							
	-3.0		C1	NA	1.7		0.0		
	3.0	<b>Sandy Lean Clay</b> Reddish brown, moist, mostly medium plasticity fines, some fine sand, medium toughness, medium dry strength, massive.							
	-4.0								
	4.0	<b>Silty Sand</b> Reddish brown, moist, mostly fine sand, little non-plastic fines, medium dense, rapid dilatancy.							
	-5.0		C2	NA	2.7		0.0	Sample location.	
	-7.0								
	7.0	As above, wet (7.0 fbgs).					0.0		
	-8.0								
	8.0								
	-10.0		C3	NA	3.1		0.0		
	-11.5								
	11.5	End of boring 12.0 fbgs.					0.0		
	-12.0								
	12.0	End of Borehole							

-1- First water 7.0 fbgs.

**Drilled By:** Trec Environmental Inc.  
**Drill Rig Type:** Geoprobe 54LT  
**Drill Method:** Directpush w/4' macro-core.  
**Comments:**  
**Drill Date(s):** 11/14/16

**Hole Size:** 3-inch.  
**Stick-up:** NA  
**Datum:** NA  
**Sheet:** 1 of 1



# APPENDIX C

## WELL DEVELOPMENT AND SAMPLING LOGS



# GROUNDWATER FIELD FORM

Project Name: Former Trico Plank

Date: 6-7-16

Location: 791 Washington St

Project No.: 0092-013-500

Field Team: Bmg/NMS

<b>Well No.</b> <u>RI MW-2</u>		Diameter (inches): <u>2"</u>		Sample Date / Time: <u>6-7-16 11:15</u>					
Product Depth (fbTOR): <u>NA</u>		Water Column (ft): <u>4.47</u>		DTW when sampled:					
DTW (static) (fbTOR): <u>11.21</u>		One Well Volume (gal): <u>0.73</u>		Purpose: <input checked="" type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample					
Total Depth (fbTOR): <u>15.20, 15.20</u>		Total Volume Purged (gal): <u>7.5</u>		Purge Method: <u>Booster</u>					
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
11:25	0 Initial	0	6.02	12.5	4505	15	5.44	326	clear, slight odor
11:35	1 12.20	0.75	6.42	10.3	5102	445	6.20	110	turbid, slight odor
11:40	2 13.15	1.50	6.61	9.4	5185	574	4.01	104	" "
11:45	3 13.53	2.25	6.74	9.8	5159	475	3.96	101	" "
11:50	4 14.01	3.0	6.80	9.8	5324	62	4.35	98	" "
11:55	5 14.45	3.75	6.95	9.7	5382	OR	-	94	" "
12:00	6 14.89	4.5	7.05	9.5	5518	OR	4.92	98	" "
12:05	7 15.13	5.25	7.06	9.1	5467	OR	3.74	95	" "
12:10	8 16.45	6.0	7.12	9.4	5431	OR	4.35	102	" "
12:45	9 15.40	6.75	6.86	10.9	5387	OR	6.33	96	" "
12:50	10 18.7	7.5	7.23	10.0	5413	OR	7.42	110	" "
<b>Sample Information:</b>									
S1									
S2									

<b>Well No.</b> <u>RI MW-9</u>		Diameter (inches): <u>2"</u>		Sample Date / Time: <u>6-7-16/1330</u>					
Product Depth (fbTOR): <u>NA</u>		Water Column (ft): <u>9.26</u>		DTW when sampled:					
DTW (static) (fbTOR): <u>6.89</u>		One Well Volume (gal): <u>1.5</u>		Purpose: <input checked="" type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample					
Total Depth (fbTOR): <u>16.15</u>		Total Volume Purged (gal): <u>13.5</u>		Purge Method: <u>Booster</u>					
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1:30	0 Initial	0	6.75	11.2	1410	OR	7.60	62	Clear, slight odor
1:35	1 8.8	1.5	6.69	11.0	1265	OR	4.31	600	Turbid, slight odor
1:40	2 7.9	3.0	6.82	10.5	1666	OR	5.20	607	" "
1:45	3 13.05	4.5	6.99	11.1	1857	OR	5.46	104	" "
1:50	4 14.4	6.0	7.08	11.5	1980	OR	7.12	120	" "
2:00	5 15.2	7.5	7.13	10.9	1993	OR	7.78	135	" "
6/19/16 → 16:25	6 7.41	7.5	6.89	10.4	1740	221	9.50	217	clear, odor
16:40	7 10.60	9.0	7.17	10.4	1448	OR	8.48	166	Turbid, odor
16:56	8 11.75	10.5	7.12	10.4	1592	OR	10.12	154	" "
17:00	9 13.65	12.0	7.04	10.9	1853	OR	9.81	113	" "
17:10	10 14.90	13.5	7.69	10.6	2130	OR	8.37	114	" "
<b>Sample Information:</b>									
S1									
S2									

**REMARKS:** RI MW-9 @ 1510 = 14.05' + @ 1730 = 12.80'  
went dry after 5 volumes

**Stabilization Criteria**

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

**Volume Calculation**

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Note: All measurements are in feet, distance from top of riser.

PREPARED BY: Brock Greene



# GROUNDWATER FIELD FORM

Project Name: Former Trico Plant  
 Location: 791 Washington St

Date: 6-7-16  
 Field Team: BMG/NAS

Project No.: 0092-013-500

<b>Well No.</b> <u>RI MW-10</u>		Diameter (inches): <u>2"</u>			Sample Date / Time: <u>6-7-16/1420</u>				
Product Depth (fbTOR): <u>NA</u>		Water Column (ft): <u>10.15</u>			DTW when sampled:				
DTW (static) (fbTOR): <u>5.95</u>		One Well Volume (gal): <u>1.65</u>			Purpose: <input checked="" type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample				
Total Depth (fbTOR): <u>16.10</u>		Total Volume Purged (gal): <u>11.2</u>			Purge Method: <u>Rambor</u>				
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
<u>1420</u>	0 Initial	<u>0</u>	<u>7.06</u>	<u>11.1</u>	<u>1442</u>	<u>616</u>	<u>3.69</u>	<u>160</u>	<u>Slight odor, clear</u>
<u>1425</u>	1 <u>8.35</u>	<u>1.6</u>	<u>6.89</u>	<u>11.0</u>	<u>1035</u>	<u>412</u>	<u>4.55</u>	<u>62</u>	<u>slight turbid brown</u>
<u>1430</u>	2 <u>9.15</u>	<u>3.2</u>	<u>6.84</u>	<u>11.1</u>	<u>1225</u>	<u>1000</u>	<u>5.34</u>	<u>81</u>	<u>" "</u>
<u>1435</u>	3 <u>10.20</u>	<u>4.8</u>	<u>6.97</u>	<u>11.1</u>	<u>1406</u>	<u>OR</u>	<u>3.87</u>	<u>93</u>	<u>" "</u>
<u>1440</u>	4 <u>11.45</u>	<u>6.4</u>	<u>7.03</u>	<u>10.9</u>	<u>1498</u>	<u>OR</u>	<u>2.85</u>	<u>108</u>	<u>" "</u>
<u>1440</u>	5 <u>13.40</u>	<u>8.0</u>	<u>6.91</u>	<u>11.7</u>	<u>1470</u>	<u>895</u>	<u>2.33</u>	<u>115</u>	<u>" "</u>
<u>1445</u>	6 <u>14.70</u>	<u>9.6</u>	<u>6.88</u>	<u>11.7</u>	<u>1631</u>	<u>1000</u>	<u>2.86</u>	<u>145</u>	<u>" "</u>
<u>1450</u>	7 <u>15.50</u>	<u>11.2</u>	<u>6.98</u>	<u>12.2</u>	<u>1830</u>	<u>OR</u>	<u>5.53</u>	<u>48</u>	<u>" "</u>
	8	<u>12.8</u>							
	9	<u>14.4</u>							
	10	<u>16.0</u>							
<b>Sample Information:</b>									
	S1								
	S2								

<b>Well No.</b> <u>RI MW-3</u>		Diameter (inches): <u>1"</u>			Sample Date / Time: <u>6-7-16/1615</u>				
Product Depth (fbTOR): <u>NA</u>		Water Column (ft): <u>9.92</u>			DTW when sampled:				
DTW (static) (fbTOR): <u>2.70'</u>		One Well Volume (gal): <u>0.4</u>			Purpose: <input checked="" type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample				
Total Depth (fbTOR): <u>12.62</u>		Total Volume Purged (gal): <u>4.0</u>			Purge Method: <u>bailey</u>				
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
<u>16:15</u>	0 Initial	<u>0</u>	<u>7.16</u>	<u>12.9</u>	<u>4602</u>	<u>380</u>	<u>4.84</u>	<u>-4</u>	<u>Clear, slight odor</u>
<u>16:20</u>	1 <u>7.5</u>	<u>.64</u>	<u>7.28</u>	<u>10.2</u>	<u>4888</u>	<u>OR</u>	<u>3.47</u>	<u>-37</u>	<u>Turbid brown, slight odor</u>
<u>16:25</u>	2 <u>10.6</u>	<u>.8</u>	<u>7.53</u>	<u>10.1</u>	<u>2606</u>	<u>OR</u>	<u>4.3</u>	<u>-135</u>	<u>" "</u>
<u>16:30</u>	3 <u>11.55</u>	<u>1.2</u>	<u>7.66</u>	<u>10.6</u>	<u>1661</u>	<u>OR</u>	<u>1.24</u>	<u>-164</u>	<u>" "</u>
<u>16:35</u>	4 <u>11.5</u>	<u>1.6</u>	<u>7.74</u>	<u>10.1</u>	<u>2234</u>	<u>OR</u>	<u>.57</u>	<u>-114</u>	<u>" "</u>
<u>16:40</u>	5 <u>11.65</u>	<u>2.0</u>	<u>7.72</u>	<u>10.1</u>	<u>2486</u>	<u>OR</u>	<u>.26</u>	<u>-148</u>	<u>" "</u>
<u>16:45</u>	6 <u>11.63</u>	<u>2.4</u>	<u>7.75</u>	<u>10.1</u>	<u>3620</u>	<u>OR</u>	<u>.18</u>	<u>-80</u>	<u>" "</u>
<u>16:50</u>	7 <u>12.5</u>	<u>2.8</u>	<u>7.76</u>	<u>10.4</u>	<u>3671</u>	<u>OR</u>	<u>1.10</u>	<u>-62</u>	<u>" "</u>
<u>16:55</u>	8 <u>12.4</u>	<u>3.2</u>	<u>7.63</u>	<u>10.4</u>	<u>3534</u>	<u>OR</u>	<u>1.83</u>	<u>-101</u>	<u>" "</u>
<u>17:00</u>	9 <u>11.95</u>	<u>3.6</u>	<u>7.63</u>	<u>10.8</u>	<u>3570</u>	<u>OR</u>	<u>1.42</u>	<u>-106</u>	<u>" "</u>
<u>17:05</u>	10 <u>12.96</u>	<u>4.0</u>	<u>7.60</u>	<u>10.4</u>	<u>3615</u>	<u>OR</u>	<u>2.18</u>	<u>-104</u>	<u>" "</u>
<b>Sample Information:</b>									
	S1								
	S2								

REMARKS: MW-10 @ 1730 = 12.55' 6/7/16  
MW-10 @ 1730 6/8/16 = 7.55'

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Note: All measurements are in feet, distance from top of riser.

PREPARED BY: Brack Greene



# GROUNDWATER FIELD FORM

Project Name: Former Trico Plant

Date: 6-8-16

Location: 791 Washington St

Project No.: 0092-013-500

Field Team: BMG/NAS

<b>Well No.</b> <u>R1MW-1</u>		Diameter (inches): <u>1"</u>				Sample Date / Time: <u>6-8-16</u>			
Product Depth (fbTOR): <u>NA</u>		Water Column (ft): <u>11.54</u>				DTW when sampled:			
DTW (static) (fbTOR): <u>8.21</u>		One Well Volume (gal): <u>0.47</u>				Purpose: <input checked="" type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): <u>19.75'</u>		Total Volume Purged (gal): <u>5.0</u>				Purge Method: <u>bailey</u>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
8:40	0 Initial	0	6.04	10.1	1201us	648	1.85	-97	clear, no odor
8:45	1 12.0	0.5	7.27	9.9	10.97ms	OR	5.58	-33	brown turbid, no odor
8:53	2 11.40	1.0	7.56	10.0	12.83ms	OR	4.35	-72	" "
9:02	3 11.50	1.5	7.41	9.6	12.76ms	OR	5.42	-8	" "
9:10	4 11.50	2.0	7.63	9.7	13.63ms	OR	5.90	-15	" "
9:18	5 11.80	2.5	7.64	9.7	13.82	OR	4.67	90	" "
9:26	6 11.85	3.0	7.66	9.6	13.92	OR	6.79	78	" "
9:34	7 12.10	3.5	7.68	9.4	14.02	OR	5.47	-58	" "
9:42	8 12.20	4.0	7.66	9.4	13.48	OR	3.75	47	" "
9:50	9 12.10	4.5	7.65	9.4	13.87	OR	3.61	-18	" "
9:58	10 12.10	5.0	7.66	9.4	13.74	OR	3.96	65	" "
<b>Sample Information:</b>									
S1									
S2									

<b>Well No.</b> <u>R1MW-4</u>		Diameter (inches): <u>1"</u>				Sample Date / Time: <u>6-8-16</u>			
Product Depth (fbTOR): <u>NA</u>		Water Column (ft): <u>5.82</u>				DTW when sampled:			
DTW (static) (fbTOR): <u>6.1</u>		One Well Volume (gal): <u>0.24</u>				Purpose: <input checked="" type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): <u>6.42'</u>		Total Volume Purged (gal): <u>2.5</u>				Purge Method: <u>bailey</u>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:45	0 Initial	0	7.42	10.2	3592	OR	1.18	-109	clear, no odor
10:55	1 4.52	.25	7.87	10.0	1764	OR	0.14	-197	" "
11:05	2 11.68	.5	7.86	10.2	1401	OR	0.62	-245	" "
11:20	3 3.45	.75	7.72	9.4	2843	OR	.35	-252	" "
11:30	4 5.15	1	7.64	9.8	2281	OR	.32	-291	" "
11:45	5 5.15	1.25	7.68	9.6	3562	OR	.61	-189	" "
11:50	6 4.55	1.50	7.69	9.2	3565	OR	.30	-156	" "
11:55	7 4.70	1.75	7.67	9.2	3408	OR	1.11	-193	" "
12:05	8 4.65	2	7.68	9.4	3601	OR	.36	-149	" "
12:15	9 4.85	2.25	7.67	9.0	3600	OR	.14	-174	" "
	10 4.41	2.5	7.66	8.9	2990	OR	1.15	-250	" "
<b>Sample Information:</b>									
S1									
S2									

**REMARKS:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Volume Calculation**

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

**Stabilization Criteria**

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Note: All measurements are in feet, distance from top of riser.

PREPARED BY: Brak Green



# GROUNDWATER FIELD FORM

Project Name: Former Trico Plant  
 Location: 791 Washington St

Date: 6-8-16  
 Field Team: Bmc

Project No.: 0092-013-500

<b>Well No.</b> <u>R1MW-6</u>			Diameter (inches): <u>2"</u>			Sample Date / Time: <u>6-8-16/1050</u>			
Product Depth (fbTOR): <u>NA</u>			Water Column (ft): <u>14.48</u>			DTW when sampled:			
DTW (static) (fbTOR): <u>1.5'</u>			One Well Volume (gal): <u>2.36</u>			Purpose: <input checked="" type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): <u>15.98</u>			Total Volume Purged (gal): <u>14.4</u>			Purge Method: <u>bailer</u>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
<u>1050</u>	0 Initial	<u>0</u>	<u>6.45</u>	<u>11.5</u>	<u>1848</u>	<u>~200</u>	<u>2.12</u>	<u>137</u>	<u>clear, slight odor</u>
<u>1100</u>	<u>8.4</u>	<u>2.4</u>	<u>6.87</u>	<u>9.6</u>	<u>2570</u>	<u>~100</u>	<u>2.65</u>	<u>84</u>	<u>slight turbid, slight odor</u>
<u>1107</u>	<u>8.5</u>	<u>4.8</u>	<u>7.14</u>	<u>9.3</u>	<u>2428</u>	<u>~200</u>	<u>3.06</u>	<u>59</u>	<u>" "</u>
<u>1116</u>	<u>9.4</u>	<u>7.2</u>	<u>7.06</u>	<u>9.3</u>	<u>2846</u>	<u>~800</u>	<u>3.80</u>	<u>52</u>	<u>brown turbid, slight odor</u>
<u>1125</u>	<u>12.3</u>	<u>9.6</u>	<u>7.11</u>	<u>9.3</u>	<u>3165</u>	<u>&lt;1000</u>	<u>2.53</u>	<u>51</u>	<u>" "</u>
<u>1144</u>	<u>13.4</u>	<u>12.0</u>	<u>7.25</u>	<u>9.7</u>	<u>3045</u>	<u>&lt;1000</u>	<u>8.79</u>	<u>80</u>	<u>" "</u>
<u>1157</u>	<u>14.9</u>	<u>14.4</u>	<u>7.29</u>	<u>9.8</u>	<u>3008</u>	<u>&lt;1000</u>	<u>8.37</u>	<u>91</u>	<u>" "</u>
		<u>16.8</u>							
		<u>19.2</u>							
		<u>21.6</u>							
		<u>24.0</u>							
<b>Sample Information:</b>									
	S1								
	S2								

<b>Well No.</b> <u>R1MW-5</u>			Diameter (inches): <u>1"</u>			Sample Date / Time: <u>6-8-16/1405</u>			
Product Depth (fbTOR): <u>NA</u>			Water Column (ft): <u>4.95</u>			DTW when sampled:			
DTW (static) (fbTOR): <u>3.75'</u>			One Well Volume (gal): <u>0.19</u>			Purpose: <input checked="" type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): <u>8.60'</u>			Total Volume Purged (gal): <u>2.0</u>			Purge Method: <u>bailer</u>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
<u>1405</u>	0 Initial	<u>0</u>	<u>8.01</u>	<u>11.2</u>	<u>3160</u>	<u>~20</u>	<u>1.91</u>	<u>275</u>	<u>clear, no odor</u>
<u>1411</u>	<u>6.1</u>	<u>.2</u>	<u>8.04</u>	<u>10.4</u>	<u>1625</u>	<u>&lt;1000</u>	<u>0.17</u>	<u>-369</u>	<u>brown turbid, no odor</u>
<u>1417</u>	<u>6.3</u>	<u>.4</u>	<u>8.03</u>	<u>9.9</u>	<u>1711</u>	<u>&lt;1000</u>	<u>0.21</u>	<u>-420</u>	<u>" "</u>
<u>1424</u>	<u>6.5</u>	<u>.6</u>	<u>8.06</u>	<u>9.9</u>	<u>1793</u>	<u>&lt;1000</u>	<u>0.02</u>	<u>-475</u>	<u>" "</u>
<u>1430</u>	<u>6.5</u>	<u>.8</u>	<u>8.06</u>	<u>9.8</u>	<u>1210</u>	<u>&lt;1000</u>	<u>0.04</u>	<u>-517</u>	<u>" "</u>
<u>1437</u>	<u>6.5</u>	<u>1.0</u>	<u>8.03</u>	<u>9.5</u>	<u>1210</u>	<u>&lt;1000</u>	<u>0.22</u>	<u>-525</u>	<u>" "</u>
<u>1442</u>	<u>6.6</u>	<u>1.2</u>	<u>8.02</u>	<u>9.6</u>	<u>1110</u>	<u>&lt;1000</u>	<u>0.16</u>	<u>-535</u>	<u>" "</u>
<u>1448</u>	<u>6.6</u>	<u>1.4</u>	<u>7.98</u>	<u>9.3</u>	<u>1578</u>	<u>&lt;1000</u>	<u>1.36</u>	<u>-74</u>	<u>" "</u>
<u>1454</u>	<u>6.6</u>	<u>1.6</u>	<u>7.94</u>	<u>9.6</u>	<u>1790</u>	<u>&lt;1000</u>	<u>2.32</u>	<u>-25</u>	<u>" "</u>
<u>1501</u>	<u>6.7</u>	<u>1.8</u>	<u>7.97</u>	<u>9.5</u>	<u>1548</u>	<u>&lt;1000</u>	<u>1.78</u>	<u>-41</u>	<u>" "</u>
<u>1506</u>	<u>6.7</u>	<u>2.0</u>	<u>7.94</u>	<u>9.5</u>	<u>1615</u>	<u>&lt;1000</u>	<u>2.62</u>	<u>-20</u>	<u>" "</u>
<b>Sample Information:</b>									
	S1								
	S2								

**REMARKS:**  
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 \_\_\_\_\_  
 \_\_\_\_\_

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Note: All measurements are in feet, distance from top of riser.

PREPARED BY: Brock Greene



# GROUNDWATER FIELD FORM

Project Name: Former Trico Plant  
 Location: 791 Washington

Date: 6-8-16  
 Project No.: 0092013-500 Field Team: NAS

<b>Well No.</b> <u>RI MW-8</u>		Diameter (inches): <u>2"</u>		Sample Date / Time: <u>6-8-16</u>					
Product Depth (fbTOR): <u>NA</u>		Water Column (ft): <u>12'</u>		DTW when sampled:					
DTW (static) (fbTOR): <u>4.25</u>		One Well Volume (gal): <u>1.95</u>		Purpose: <input checked="" type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample					
Total Depth (fbTOR): <u>15.95</u>		Total Volume Purged (gal): <u>10.0</u>		Purge Method: <u>Bailer</u>					
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
13:55	0 Initial	0	7.39	10.1	1616	128	5.25	71	Clear, slight odor
14:05	1 6.75	2.0	7.47	10.2	1735	363	3.13	77	Slight turbidity, slight odor
14:26	2 8.38	4.0	7.34	10.3	2517	OR	2.48	45	Turbid + slight odor
14:30	3 9.65	6.0	7.28	10.1	3329	OR	1.98	35	" "
14:40	4 10.25	8.0	7.25	9.9	4241	OR	2.80	21	" "
14:55	5 11.75	10.0	7.22	9.9	4927	OR	3.43	15	" "
15:05	6 12.3	12.0	7.23	10.0	5334	OR	2.72	13	" "
15:30	7 11.8	14.0	7.27	10.1	5239	OR	4.22	26	" "
15:40	8 12.82	16.0	7.25	9.9	5055	OR	4.96	6	" "
15:50	9 13.42	18.0	7.34	10.0	5030	OR	8.17	21	" "
16:00	10 14.70	20.0	7.40	10.0	4454	OR	8.07	44	" "
<b>Sample Information:</b>									
S1									
S2									

16:50  
 15:30  
 15:05  
 14:55  
 14:40  
 14:30  
 14:26  
 14:05  
 13:55  
 10:50  
 Bailer

slight odor  
 slight turbidity  
 slight odor

<b>Well No.</b>		Diameter (inches):		Sample Date / Time:					
Product Depth (fbTOR):		Water Column (ft):		DTW when sampled:					
DTW (static) (fbTOR):		One Well Volume (gal):		Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample					
Total Depth (fbTOR):		Total Volume Purged (gal):		Purge Method:					
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0	Initial								
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
<b>Sample Information:</b>									
S1									
S2									

**REMARKS:**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Note: All measurements are in feet, distance from top of riser.

PREPARED BY: NAS



# GROUNDWATER FIELD FORM

Project Name: Former Trico Plant

Date: 6-8-10

Location: 791 Washington St

Project No.: 0092-D13-500

Field Team: BMG

<b>Well No.</b> <u>RIMW-7</u>			Diameter (inches): <u>2"</u>			Sample Date / Time: <u>6-8-10/1600</u>			
Product Depth (fbTOR): <u>N/A</u>			Water Column (ft): <u>15.35</u>			DTW when sampled:			
DTW (static) (fbTOR): <u>0.85</u>			One Well Volume (gal): <u>2.5</u>			Purpose: <input checked="" type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): <u>16.20</u>			Total Volume Purged (gal): <u>25</u>			Purge Method: <u>baiter</u>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1600	0 Initial	0	7.45	11.5	1285	~20	5.12	340	clear, slight odor
1610	1 6.10	2.5	7.15	9.8	1414	~600	2.01	290	turbid, slight odor
1618	2 6.50	5.0	7.20	9.3	1451	~400	8.84	330	" "
1627	3 8.10	7.5	7.28	9.4	1495	<1000	7.15	350	Brown turbid, slight odor
1637	4 9.0	10	7.23	9.3	1503	<1000	3.73	370	" "
1647	5 10.2	12.5	7.17	9.2	1544	<1000	5.75	390	" "
1655	6 12.1	15.0	7.14	9.2	1577	<1000	3.07	270	" "
1705	7 13.15	17.5	7.11	9.5	1626	<1000	6.73	389	" "
1715	8 14.0	20	7.17	9.4	1696	<1000	7.41	410	" "
1728	9 14.5	22.5	7.24	9.5	1750	<1000	7.28	260	" "
1737	10 14.9	25	7.25	9.4	1800	<1000	6.67	148	" "
<b>Sample Information:</b>									
S1									
S2									

<b>Well No.</b>			Diameter (inches):			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft):			DTW when sampled:			
DTW (static) (fbTOR):			One Well Volume (gal):			Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample			
Total Depth (fbTOR):			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0	Initial								
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
<b>Sample Information:</b>									
S1									
S2									

**REMARKS:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Note: All measurements are in feet, distance from top of riser.

**Volume Calculation**

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

**Stabilization Criteria**

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY: Brock Greene



# EQUIPMENT CALIBRATION LOG

## PROJECT INFORMATION:

Project Name: Former Trio Plant

Project No.: 0092-013-500

Client: 847 Main St, LLC

Date: 6-7-16

Instrument Source:  BM  Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
<input checked="" type="checkbox"/> pH meter	units	900	Myron L Company Ultra Meter 6P	6213516 <input type="checkbox"/>		4.00	402	
				6212375 <input type="checkbox"/>		7.00	2098	
				6223973 <input checked="" type="checkbox"/>		10.01	998	
<input type="checkbox"/> Turbidity meter	NTU		Hach 2100P or 2100Q Turbidimeter	06120C020523 <input type="checkbox"/>		< 0.4 or 10 for 2100 Q		
				07110C026405 <input type="checkbox"/>		20		
				13120C030432 <input type="checkbox"/>		100		
<input checked="" type="checkbox"/> Sp. Cond. meter	uS mS	930	Myron L Company Ultra Meter 6P	6213516 <input type="checkbox"/>		1413 mS @ 25 °C	1412	
				6212375 <input type="checkbox"/>				
				6223973 <input checked="" type="checkbox"/>				
<input type="checkbox"/> PID	ppm		MinRAE 2000			open air zero		MIBK response factor = 1.0
<input checked="" type="checkbox"/> Dissolved Oxygen	ppm	930	HACH Model HQ30d	0807000023281 <input type="checkbox"/>		100% Saturation	100%	
				10050041867 <input type="checkbox"/>				
				140200100319 <input checked="" type="checkbox"/>				
<input type="checkbox"/> Particulate meter	mg/m <sup>3</sup>					zero air		
<input type="checkbox"/> Oxygen	%					open air		
<input type="checkbox"/> Hydrogen sulfide	ppm					open air		
<input type="checkbox"/> Carbon monoxide	ppm					open air		
<input type="checkbox"/> LEL	%					open air		
<input type="checkbox"/> Radiation Meter	uR/H					background area		

### ADDITIONAL REMARKS:

Check calibration on 6-8-16 all had similar readings

PREPARED BY: Brock Greene

DATE: 6-7-16





# EQUIPMENT CALIBRATION LOG

## PROJECT INFORMATION:

Project Name: Former Trico Plant

Date: 6-7-16

Project No.: 0092-013-500

Client: 847 Main St, LLC

Instrument Source:  BM  Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
<input checked="" type="checkbox"/> pH meter	units	845	Myron L Company Ultra Meter 6P	6213516 <input type="checkbox"/>	NAS	4.00	<del>4.00</del> 4.00	
				6212375 <input checked="" type="checkbox"/>		7.00	7.03	
				6223973 <input type="checkbox"/>		10.01	10.00	
<input checked="" type="checkbox"/> Turbidity meter	NTU	830	Hach 2100P or 2100Q Turbidimeter	06120C020523 <input checked="" type="checkbox"/>	BMB	< 0.4 or 10 for 2100 Q	0.79	
				07110C026405 <input type="checkbox"/>		20	23.6	
				13120C030432 <input type="checkbox"/>		100	96.6	
<input checked="" type="checkbox"/> Sp. Cond. meter	uS mS	835	Myron L Company Ultra Meter 6P	6213516 <input type="checkbox"/>	NAS	1413 mS @ 25 °C	1414	
				6212375 <input checked="" type="checkbox"/>				
				6223973 <input type="checkbox"/>				
<input type="checkbox"/> PID	ppm		MinRAE 2000			open air zero		MIBK response factor = 1.0
<input checked="" type="checkbox"/> Dissolved Oxygen	ppm	835	HACH Model HQ30d	0807000023281 <input checked="" type="checkbox"/>	BMB	100% Saturation	100%	
				10050041867 <input type="checkbox"/>				
				140200100319 <input type="checkbox"/>				
<input type="checkbox"/> Particulate meter	mg/m <sup>3</sup>					zero air		
<input type="checkbox"/> Oxygen	%					open air		
<input type="checkbox"/> Hydrogen sulfide	ppm					open air		
<input type="checkbox"/> Carbon monoxide	ppm					open air		
<input type="checkbox"/> LEL	%					open air		
<input type="checkbox"/> Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS: Checked calibration on 6-8-16 all have similar readings

PREPARED BY: Brock Greene

DATE: 6-7-16

**GROUNDWATER FIELD FORM**

Project Name: 791 Washington Street Date: 6-14-16  
Location: 791 Washington Street Buffalo NY Project No.: T0092-013-500 Field Team: NS/CB/PW

<b>Well No.</b> <u>RI MW-3</u>			Diameter (inches): <u>1"</u>			Sample Date / Time: <u>6/14/16 1300</u>			
Product Depth (fbTOR): <u>→</u>			Water Column (ft): <u>10.73</u>			DTW when sampled: <u>9.81</u>			
DTW (static) (fbTOR): <u>3.85</u>			One Well Volume (gal): <u>0.43</u>			Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): <u>14.58</u>			Total Volume Purged (gal): <u>1.5</u>			Purge Method: <u>peristaltic Bailer</u>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
12:30	0 Initial	0	7.44	16.1	4937	323	6.48	184	Clear, Slight odor
12:35	1 6.15	.2	7.47	10.1	5218	OR	4.71	121	Turbid, slight odor
12:40	2 8.43	.4	7.45	9.5	5015	OR	4.12	103	" "
12:45	3 10.85	.8	7.46	9.8	4974	OR	2.44	52	" "
12:50	4 9.84	1	7.43	9.5	4937	OR	2.06	18	" "
5									
6									
7									
8									
9									
10									
<b>Sample Information:</b>									
13:00	S1	<del>2.49</del> 1.25	7.49	9.5	4762	71000	434	41	Turbid brown / sweet
13:41	S2	1.5	7.47	9.6	4587	"		17	

<b>Well No.</b> <u>RI MW-10</u>			Diameter (inches): <u>2"</u>			Sample Date / Time: <u>6/14/16 11:05</u>			
Product Depth (fbTOR): <u>→</u>			Water Column (ft): <u>9.93</u>			DTW when sampled: <u>8.1</u>			
DTW (static) (fbTOR): <u>6.10</u>			One Well Volume (gal): <u>1.61</u>			Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): <u>16.03</u>			Total Volume Purged (gal): <u>1.25</u>			Purge Method: <u>low flow</u>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:53	0 Initial	0	7.07	13	1091	43	8.20	220	Clear, Slight odor
10:55	1 6.08	.25	7.10	12	1272	61	7.55	183	" "
11:00	2 7.41	.5	7.13	10.4	1172	93	7.48	167	
11:08	3 7.76	.75	7.13	10.2	1045	41	7.94	163	
11:15	4 8.43								
5									
6									
7									
8									
9									
10									
<b>Sample Information:</b>									
11:05	S1	8.1	7.15	10.4	1016	41	7.39	167	Clear, No odor
11:40	S2	1.25	7.09	10.7	1290		7.78	164	

**REMARKS:** Blank DUP RI MW-10

\* Sweet odor potentially sand  
RI MW-3 Turbidity over 50 NTU, spoke with Ryan Vander  
From Tech America. Says there is enough volume in herbicide

Note: All water level measurements are in feet, distance from top of riser.

Bottles to get Dissolved Metals

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY: [Signature]

Project Name: 791 Washington Street

Date: 6-14-16

Location: 791 Washington Street Buffalo NY

Project No.: T0092-013-500

Field Team: NS/CB/PW

15.86  
+ 2.20  
16.14

Well No.   MW-9			Diameter (inches): <u>2"</u>			Sample Date / Time: <u>6-14-16 / 12:20</u>				
Product Depth (ftTOR): <u>-</u>			Water Column (ft): <u>8.95</u>			DTW when sampled: <u>9.24</u>				
DTW (static) (ftTOR): <u>7.19</u>			One Well Volume (gal): <u>1.46</u>			Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample				
Total Depth (ftTOR): <u>16.14</u>			Total Volume Purged (gal): <u>2.0</u>			Purge Method: <u>low flow</u>				
Time	Water Level (ftTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor	
10:50	0 Initial	0	6.69	13.0	3160	25.4	8.37		Sweet odor / clear.	
12:01	1 7.38	0.25	7.11	11.7	1737	231	8.33	-69	turbid Sweet odor	
12:05	2 8.29	0.5	7.16	10.8	1752	154	8.49	93	" "	
12:08	3 8.47	0.75	7.20	10.2	1542	147	8.90	90	" "	
12:11	4 8.76	1.0	7.21	10.2	1470	158	7.01	94	" "	
12:15	5 8.90	1.25	7.20	10.5	1364	156	8.56	56	" "	
6										
7										
8										
9										
10										
Sample Information:										
12:20	S1	9.24	1.5	7.16	10.5	1793	172	8.48	47	" "
12:37	S2	7.24	2.0	7.17	10.6	1355	40.2	8.21	-57	" "

0.85  
+ 0.28  
1.13  
K.94  
+ 0.22  
14.22

Well No.   MW-7			Diameter (inches): <u>2"</u>			Sample Date / Time: <u>6-14-16 / 2:15</u>				
Product Depth (ftTOR): <u>-</u>			Water Column (ft): <u>15.09</u>			DTW when sampled: <u>4.16</u>				
DTW (static) (ftTOR): <u>1.13</u>			One Well Volume (gal): <u>2.4596</u>			Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample				
Total Depth (ftTOR): <u>15.16.22</u>			Total Volume Purged (gal): <u>7 gal.</u>			Purge Method: <u>low flow</u>				
Time	Water Level (ftTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor	
1:39	0 Initial	0	7.59	10.4	1744	43.5	6.70	-70		
1:46	1 1.0	0.25	7.29	10.7	268	590	6.08	86		
1:49	2 1.98	0.5	7.25	9.5	1734	588	6.23	120		
1:53	3 2.99	0.75	7.22	9.2	1734	331	6.04			
1:56	4 2.96	1.0	7.20	9.2	1737	219	5.97	107		
2:00	5 2.96	1.5	7.27	9.5	1758	187	5.89	115		
2:03	6 4.00	1.75	7.20	9.1	1792	98.4	5.49	-80		
2:07	7 4.16	2.5				113				
8										
9										
10										
Sample Information:										
2:07	S1	4.16	2.5	7.20	9.5	1793	113	5.34	-70.	
2:49	S2	8.57	3.0	7.37	9.5	1785	131	4.14	-85	

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

REMARKS:

Odor possibly from sand  
MW-9 - Metals Sample collected when turbidity was below 50 NTU  
MW-7 - MS/MSP, filtered & sampled in lab for dissolved metals.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Note: All water level measurements are in feet, distance from top of riser.

PREPARED BY: CB

Project Name: 791 Washington Street

Date: 6-14-16

Location: 791 Washington Street Buffalo NY Project No.: T0092-013-500

Field Team: NS/CB/PW

4.29  
0.28  
4.57  
15.90  
0.28  
16.18

Well No: <u>MW-8</u>		Diameter (inches): <u>2"</u>				Sample Date / Time: <u>6-14-16 / 3:55</u>			
Product Depth (fbTOR): <u>-</u>		Water Column (ft): <u>11.61</u>				DTW when sampled: <u>6.70</u>			
DTW (static) (fbTOR): <u>4.57</u>		One Well Volume (gal): <u>1.89</u>				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): <u>16.18</u>		Total Volume Purged (gal): <u>2.75</u>				Purge Method: <u>low flow</u>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
3:23	0 Initial	0	7.95	10.6	1839	98.2	4.36	-187	
3:29	1 5.29	0.25	7.69	10.4	1676	443	3.22	-185	cloudy no odor
3:31	2 5.40	0.40	7.62	9.9	1793	372	3.30	-214	" "
3:34	3 5.57	0.50	7.60	9.9	1880	312	3.30	-207	" "
3:38	4 5.96	0.75	7.59	9.6	2011	244	3.19	-212	" "
3:42	5 6.20	1.0	7.51	10.0	2033	196	3.15	-215	less turbid
3:46	6 6.45	1.25	7.48	9.8	2181	190	3.46	-204	
3:48	7 6.66	1.5	7.51	9.9	2186	103	3.54	-206	
8									
9									
10									
<b>Sample Information:</b>									
3:51	S1 6.70	1.75	7.52	9.8	2184	172	3.66	-204	" " less turbid & no odor
4:04	S2 7.90	2.75	7.56	10.0	2440	94.7	3.34	-225	" "

2.35  
0.28  
2.63  
15.68  
0.28  
15.96

Well No: <u>MW-6</u>		Diameter (inches): <u>2"</u>				Sample Date / Time: <u>6-14-16 5:00</u>			
Product Depth (fbTOR): <u>-</u>		Water Column (ft): <u>13.33</u>				DTW when sampled: <u>6.27</u>			
DTW (static) (fbTOR): <u>2.63</u>		One Well Volume (gal): <u>2.17</u>				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): <u>15.96</u>		Total Volume Purged (gal): <u>3.0</u>				Purge Method: <u>low flow</u>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
4:38	0 Initial	0	7.68	11.5	137	180	4.59	-233	turbid / no odor
4:40	1 2.77	0.25	7.50	9.5	2542	122	3.94	-225	no odor
4:42	2 3.80	0.5	7.44	10.1	326	85.7	3.77	-225	no odor
4:45	3 4.79	0.75	7.41	9.2	880	71.5	3.93	-223	" " less turbid
4:48	4 5.44	1.0	7.41	9.4	2362	67.5	3.94	-214	" "
4:51	5 5.87	1.25	7.42	10.0	2381	69.4	3.98	-211	
4:54	6 6.23	1.5	7.42	9.3	2375	59.3	4.32	-210	clear / no odor
7									
8									
9									
10									
<b>Sample Information:</b>									
4:57	S1 6.27	2.0	7.41	9.4	2350	47.9	4.98	-209	" "
5:09	S2 8.11	3.0	7.39	9.1	2501	181	4.62	-201	" "

**REMARKS:**

MW-8 - needs to be tested for metals  
filtered + sampled in lab for dissolved metals  
MW-6 - Metals sample collected while  
turbidity was below 50 NTU

Note: All water level measurements are in feet, distance from top of riser.

**Volume Calculation**

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

**Stabilization Criteria**

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY: Charles [Signature]

**GROUNDWATER FIELD FORM**

Project Name: For Air Trilo Building  
Location: 791 Washington St

Date: 6/12/16  
Project No.: T0092-013-520 Field Team: NS/CP/PA

Well No. <u>RI MW-4</u>			Diameter (inches): <u>1"</u>			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft): <u>5.76</u>			DTW when sampled:			
DTW (static) (fbTOR): <u>0.65</u>			One Well Volume (gal): <u>0.23</u>			Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): <u>6.41</u>			Total Volume Purged (gal): <u>0.17</u>			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
<u>2:40</u>	<u>0 Initial</u>	<u>0</u>	<u>7.64</u>	<u>10.4</u>	<u>3875</u>	<u>OR</u>	<u>2.0</u>	<u>-11</u>	<u>Turbid, No odor</u>
<u>2:42</u>	<u>1</u>	<u>0.10</u>	<u>7.58</u>	<u>10.2</u>	<u>3819</u>	<u>&gt;1000</u>	<u>1.31</u>	<u>-55</u>	<u>"</u>
<u>2:44</u>	<u>2</u>	<u>0.25</u>	<u>7.57</u>	<u>9.4</u>	<u>3793</u>	<u>"</u>	<u>2.05</u>	<u>-62</u>	<u>"</u>
<u>2:46</u>	<u>3</u>	<u>0.2</u>	<u>7.57</u>	<u>9.4</u>	<u>3802</u>	<u>"</u>	<u>2.19</u>	<u>-62</u>	<u>"</u>
	<u>4</u>								
	<u>5</u>								
	<u>6</u>								
	<u>7</u>								
	<u>8</u>								
	<u>9</u>								
	<u>10</u>								
Sample Information:									
<u>14:48</u>	<u>S1</u>	<u>0.25</u>	<u>7.54</u>	<u>9.5</u>	<u>3870</u>	<u>"</u>	<u>2.75</u>	<u>-58</u>	<u>"</u>
<u>15:30</u>	<u>S2</u>	<u>0.25</u>	<u>7.56</u>	<u>9.0</u>	<u>3864</u>	<u>"</u>	<u>2.72</u>	<u>-55</u>	<u>"</u>

Well No. <u>RI MW-5</u>			Diameter (inches): <u>1</u>			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft): <u>4.27</u>			DTW when sampled:			
DTW (static) (fbTOR): <u>3.98</u>			One Well Volume (gal): <u>0.17</u>			Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): <u>8.25</u>			Total Volume Purged (gal): <u>0.18</u>			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
<u>15:55</u>	<u>0 Initial</u>	<u>0</u>	<u>7.92</u>	<u>11.1</u>	<u>3245</u>	<u>&gt;1000</u>	<u>4.14</u>	<u>23</u>	<u>Turbid, No odor</u>
<u>15:57</u>	<u>1</u>	<u>0.1</u>	<u>7.85</u>	<u>10.4</u>	<u>3191</u>	<u>&gt;1000</u>	<u>4.60</u>	<u>0</u>	<u>"</u>
<u>15:59</u>	<u>2</u>	<u>0.1</u>	<u>7.74</u>	<u>10.1</u>	<u>3208</u>	<u>"</u>	<u>3.40</u>	<u>-18</u>	<u>"</u>
<u>16:02</u>	<u>3</u>	<u>0.1</u>	<u>7.78</u>	<u>10.0</u>	<u>3260</u>	<u>"</u>	<u>4.20</u>	<u>-30</u>	<u>"</u>
	<u>4</u>								
	<u>5</u>								
	<u>6</u>								
	<u>7</u>								
	<u>8</u>								
	<u>9</u>								
	<u>10</u>								
Sample Information:									
<u>16:05</u>	<u>S1</u>	<u>0.1</u>	<u>7.77</u>	<u>10.2</u>	<u>3292</u>	<u>&gt;1000</u>	<u>3.44</u>	<u>-34</u>	<u>"</u>
<u>16:45</u>	<u>S2</u>	<u>0.1</u>	<u>7.77</u>	<u>11.0</u>	<u>3221</u>	<u>&gt;1000</u>	<u>3.34</u>	<u>-31</u>	<u>"</u>

REMARKS: RI MW-4 Went Dry

Both MW-4 + MW-5 - filtered by lab for dissolved metals

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY: [Signature]

Project Name: 791 Washington Street Date: 6-14-16  
Location: 791 Washington Street Buffalo NY Project No.: T0092-013-500 Field Team: NS/CB/PW

<b>Well No.</b> <u>R1MW-2</u>		Diameter (inches): <u>2"</u>				Sample Date / Time: <u>6-14-16 6:05</u>				
Product Depth (fbTOR): <u>—</u>		Water Column (ft): <u>4.65</u>				DTW when sampled: <u>13.65</u>				
DTW (static) (fbTOR): <u>11.63</u>		One Well Volume (gal): <u>0.76</u>				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample				
Total Depth (fbTOR): <u>16.28</u>		Total Volume Purged (gal): <u>2.25</u>				Purge Method: <u>hand pump</u>				
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor	
5:52	0 Initial	0	7.69	10.0	5170	122	5.78	165	Sweet odor	
5:55	1 11.75	0.25	7.29	9.3	4935	453	7.19	-252	turbid "	
5:58	2 12.55	0.5	7.22	9.1	4980	420	6.94	-247	" "	
6:01	3 12.81	0.75	7.22	8.9	4888	162	7.15	-244	Sweet odor	
6:03	4 13.12	1.0	7.20	8.9	4900	79.7	6.27	-248	" "	
5										
6										
7										
8										
9										
10										
<b>Sample Information:</b>										
6:05	S1	13.65	1.25	7.21	8.9	5180	131	5.24	-248	" "
6:25	S2	15.19	2.25	7.24	10.2	5393	295	4.94	-267	" "

Started to go dry

<b>Well No.</b>		Diameter (inches):				Sample Date / Time:			
Product Depth (fbTOR):		Water Column (ft):				DTW when sampled:			
DTW (static) (fbTOR):		One Well Volume (gal):				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample			
Total Depth (fbTOR):		Total Volume Purged (gal):				Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0	Initial								
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
<b>Sample Information:</b>									
S1									
S2									

**REMARKS:** Equipment Blank  
R1MW-2 med to be filtered by lab & sampled for dissolved metals  
*Note: All water level measurements are in feet, distance from top of riser.*

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY: Chris Burt

# GROUNDWATER FIELD FORM

Project Name: 791 Washington Street

Date: 6/14/16

Location: 791 Washington Street Buffalo, NY

Project No.: T0092-03-500

Field Team: NS/CB/PW

<b>Well No.</b> <u>RI 14-1</u>		Diameter (inches): <u>1</u>				Sample Date / Time: <u>6-14-16   18:23</u>			
Product Depth (fbTOR):		Water Column (ft): <u>5.56</u>				DTW when sampled: <u>-</u>			
DTW (static) (fbTOR): <u>8.42</u>		One Well Volume (gal): <u>.22</u>				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): <u>13.98</u>		Total Volume Purged (gal): <u>0.2</u>				Purge Method: <u>Permeable</u>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
<u>1815</u>	0 Initial	<u>0</u>	<u>7.71</u>	<u>13.6</u>	<u>14.53MS</u>	<u>&gt;1000</u>	<u>3.35</u>	<u>14</u>	<u>Turbid, slight odor</u>
<u>1817</u>	1	<u>2.1</u>	<u>7.64</u>	<u>11.7</u>	<u>13.75MS</u>	<u>↓</u>	<u>3.48</u>	<u>72</u>	
<u>1814</u>	2	<u>4.1</u>	<u>7.64</u>	<u>11.4</u>	<u>14.01MS</u>	<u>↓</u>	<u>2.88</u>	<u>5</u>	
<u>1821</u>	3		<u>7.64</u>	<u>10.9</u>	<u>13.63MS</u>	<u>↓</u>	<u>2.42</u>	<u>-7</u>	
4									
5									
6									
7									
8									
9									
10									
<b>Sample Information:</b>									
<u>1823</u>	S1	<u>4.2</u>	<u>7.62</u>	<u>11.3</u>	<u>13.40MS</u>	<u>13.40MS</u>	<u>2.61</u>	<u>-25</u>	
<u>1835</u>	S2	<u>1.2</u>	<u>7.62</u>	<u>12.8</u>	<u>12.58MS</u>	<u>12.58MS</u>	<u>2.42</u>	<u>-24</u>	

<b>Well No.</b>		Diameter (inches):				Sample Date / Time:			
Product Depth (fbTOR):		Water Column (ft):				DTW when sampled:			
DTW (static) (fbTOR):		One Well Volume (gal):				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample			
Total Depth (fbTOR):		Total Volume Purged (gal):				Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0	Initial								
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
<b>Sample Information:</b>									
S1									
S2									

**REMARKS:**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Note: All water level measurements are in feet, distance from top of riser.

PREPARED BY: Curtis P. [Signature]

**EQUIPMENT CALIBRATION LOG**

**PROJECT INFORMATION:**

Project Name: Former Trico Building  
Project No.: \_\_\_\_\_  
Client: \_\_\_\_\_

Date: \_\_\_\_\_

Instrument Source:  BM  Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
<input checked="" type="checkbox"/> pH meter	units	9:00	Myron L Company Ultra Meter 6P	6213516 <input type="checkbox"/>	WAS	4.00	4.01	OK
				6212375 <input checked="" type="checkbox"/>		7.00	7.00	
				6223973 <input type="checkbox"/>		10.01	10.01	
<input checked="" type="checkbox"/> Turbidity meter	NTU	9:05	Hach 2100P or 2100Q Turbidimeter	06120C020523 <input checked="" type="checkbox"/>	WAS	< 0.4 or 10 for 2100 Q	1	
				07110C026405 <input type="checkbox"/>		20	24	
				13120C030432 <input type="checkbox"/>		100	104	
<input checked="" type="checkbox"/> Sp. Cond. meter	uS mS	9:10	Myron L Company Ultra Meter 6P	6213516 <input type="checkbox"/>	WAS	1413 mS @ 25 °C	1412	OK
				6212375 <input checked="" type="checkbox"/>				
				6223973 <input type="checkbox"/>				
<input type="checkbox"/> PID	ppm		MinRAE 2000			open air zero		MIBK response factor = 1.0
<input checked="" type="checkbox"/> Dissolved Oxygen	ppm	9:15	HACH Model HQ30d	0807000023281 <input type="checkbox"/>		100% Satuartion	100%	OK
				10050041867 <input type="checkbox"/>				
				140200100319 <input type="checkbox"/>				
<input type="checkbox"/> Particulate meter	mg/m <sup>3</sup>					zero air		
<input type="checkbox"/> Oxygen	%					open air		
<input type="checkbox"/> Hydrogen sulfide	ppm					open air		
<input type="checkbox"/> Carbon monoxide	ppm					open air		
<input type="checkbox"/> LEL	%					open air		
<input type="checkbox"/> Radiation Meter	uR/H					background area		

**ADDITIONAL REMARKS:**

PREPARED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



**EQUIPMENT CALIBRATION LOG**

**PROJECT INFORMATION:**

Project Name: Former Trilo building

Date: 6/14/16

Project No.:

Client:

Instrument Source:  BM  Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
<input checked="" type="checkbox"/> pH meter	units	8:30	Myron L Company Ultra Meter 6P	6213516 <input checked="" type="checkbox"/>	NAS	4.00	4.01	OK
				6212375 <input type="checkbox"/>		7.00	7.00	
				6223973 <input type="checkbox"/>		10.01	10.00	
<input checked="" type="checkbox"/> Turbidity meter	NTU	8:45	Hach 2100P or 2100Q Turbidimeter	06120C020523 <input type="checkbox"/>	NAS	< 0.4 or 10 for 2100 Q	10.4	OK
				07110C026405 <input type="checkbox"/>		20	20.4	
				13120C030432 <input checked="" type="checkbox"/>		100	102	
<input checked="" type="checkbox"/> Sp. Cond. meter	uS mS		Myron L Company Ultra Meter 6P	6213516 <input checked="" type="checkbox"/>	NAS	1413 mS @ 25 °C	1411	OK
				6212375 <input type="checkbox"/>				
				6223973 <input type="checkbox"/>				
<input type="checkbox"/> PID	ppm		MinRAE 2000			open air zero		MIBK response factor = 1.0
<input checked="" type="checkbox"/> Dissolved Oxygen	ppm		HACH Model HQ30d	0807000023281 <input checked="" type="checkbox"/>		100% Satuartion	100%	OK
				10050041867 <input type="checkbox"/>				
				140200100319 <input type="checkbox"/>				
<input type="checkbox"/> Particulate meter	mg/m <sup>3</sup>					zero air		
<input type="checkbox"/> Oxygen	%					open air		
<input type="checkbox"/> Hydrogen sulfide	ppm					open air		
<input type="checkbox"/> Carbon monoxide	ppm					open air		
<input type="checkbox"/> LEL	%					open air		
<input type="checkbox"/> Radiation Meter	uR/H					background area		

**ADDITIONAL REMARKS:**

PREPARED BY: [Signature]

DATE: 6/14/16



# GROUNDWATER FIELD FORM

Project Name: Trico Buffalo

Date: 11/23/16

Location: Trico Buffalo

Project No.: 0092-d6-001 Field Team: TAB

<b>Well No.</b> <u>DT MW-11</u>		<b>Diameter (inches):</b> <u>2"</u>				<b>Sample Date / Time:</b> <u>11/23/16</u>			
<b>Product Depth (fbTOR):</b>		<b>Water Column (ft):</b> <u>20' 21.44</u>				<b>DTW when sampled:</b>			
<b>DTW (static) (fbTOR):</b> <u>13.99</u>		<b>One Well Volume (gal):</b> <u>2124 3.49</u>				<b>Purpose:</b> <input checked="" type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample			
<b>Total Depth (fbTOR):</b> <u>35.43</u>		<b>Total Volume Purged (gal):</b> <u>15.5</u>				<b>Purge Method:</b> <u>Purge Bailer</u>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1134	0 Initial	0	6.40	13.3	588.6	154	-	245	Sl Turb. No. odor
1137	1 31.45	3.5	7.12	11.5	745.9	71000	-	185	Turb. No.
1144	2 DRY	6.0	7.08	11.0	887.7	71000	-	138	"
1240	3 33.51	8.5	8.15	10.7	1084	71000	-	121	"
1258	4 DRY	9.5	7.86	10.8	1108.8	71000	-	124	"
1342	5 35.0	11.5	8.0	9.9	1346	71000	-	152	"
1439	6 34.60	13.0	8.02	9.5	1557	71000	-	145	"
1539	7 34.88	15.5	8.11	10.1	1819	71000	-	142	"
8									
9									
10									
<b>Sample Information:</b> <u>New Bottom 35.73</u>									
S1									
S2									

WL 29.25  
WL 32.15  
WL 31.74  
WL 31.00

Water color

<b>Well No.</b> <u>RT MW-12</u>		<b>Diameter (inches):</b> <u>2"</u>				<b>Sample Date / Time:</b> <u>11/23/16</u>			
<b>Product Depth (fbTOR):</b>		<b>Water Column (ft):</b> <u>14.6</u>				<b>DTW when sampled:</b>			
<b>DTW (static) (fbTOR):</b> <u>18.0</u>		<b>One Well Volume (gal):</b> <u>319</u>				<b>Purpose:</b> <input checked="" type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample			
<b>Total Depth (fbTOR):</b> <u>32.60</u>		<b>Total Volume Purged (gal):</b>				<b>Purge Method:</b> <u>Purge Bailer</u>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1218	0 Initial	0	8.60	11.1	480.6	332	-	169	Turb. No. odor
1225	1 30.40	3.0	8.83	12.2	634.6	71000	-	164	"
1234	2 DRY	6.0	8.42	9.6	1730	71000	-	141	"
1305	3 DRY	9.0	7.97	9.2	2170	71000	-	154	"
1405	4 36.75	12.0	7.97	10.8	2860	71000	-	162	"
1505	5 36.81	15.0	7.83	10.4	3946	71000	-	158	"
6									
7									
8									
9									
10									
<b>Sample Information:</b> <u>Bottom 37.60</u>									
S1									
S2									

WL 32.94  
WL 31.99  
WL 31.51

**REMARKS:**

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Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Note: All measurements are in feet, distance from top of riser.

PREPARED BY: TAB



## EQUIPMENT CALIBRATION LOG

### PROJECT INFORMATION:

Project Name: Tisco  
 Project No.: 0092-06-801  
 Client: Kroy

Date: 11/23/16

Instrument Source:  BM  Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
<input checked="" type="checkbox"/> pH meter	units		Myron L Company Ultra Meter 6P	6213516 <input type="checkbox"/>	TAB	4.00	3.97	4
				6212375 <input checked="" type="checkbox"/>		7.00	7.02	7
				6223973 <input type="checkbox"/>		10.01	10.01	10
<input checked="" type="checkbox"/> Turbidity meter	NTU		Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) <input type="checkbox"/>	TAB	< 0.4 of 10 for 2100 Q	9.4	10.0
				13120C030432 (Q) <input checked="" type="checkbox"/>		20		
						100		
<input type="checkbox"/> Turbidity meter	NTU		LaMotte 2020	6523-1816 (La) <input type="checkbox"/>		0.0 NTU 1.0 NTU 10.0 NTU		
<input checked="" type="checkbox"/> Sp. Cond. meter	uS mS		Myron L Company Ultra Meter 6P	6213516 <input type="checkbox"/>	TAB	1418 mS @ 25 °C	1917	1413
				6212375 <input checked="" type="checkbox"/>				
				6223973 <input type="checkbox"/>				
<input type="checkbox"/> PID	ppm		MinRAE 2000			open air zero _____ ppm Iso. Gas		MIBK response factor = 1.0
<input checked="" type="checkbox"/> Dissolved Oxygen	ppm		HACH Model HQ30d	0807000023281 <input type="checkbox"/>		100% Satuartion		
				10050041867 <input type="checkbox"/>				
				140200100319 <input type="checkbox"/>				
<input type="checkbox"/> Particulate meter	mg/m <sup>3</sup>					zero air		
<input type="checkbox"/> Oxygen	%					open air		
<input type="checkbox"/> Hydrogen sulfide	ppm					open air		
<input type="checkbox"/> Carbon monoxide	ppm					open air		
<input type="checkbox"/> LEL	%					open air		
<input type="checkbox"/> Radiation Meter	uR/H					background area		

### ADDITIONAL REMARKS:

PREPARED BY: TAB

DATE: 11/23/16



# GROUNDWATER FIELD FORM

Project Name: TISCO

Date: 11/28/16

Location: Buffalo

Project No.: 0092-016-001 Field Team: TAB

<b>Well No.</b> <u>RSMW-9</u>		<b>Diameter (inches):</b> <u>2"</u>				<b>Sample Date / Time:</b> <u>11/26/16 1552</u>			
<b>Product Depth (fbTOR):</b> <u>-</u>		<b>Water Column (ft):</b> <u>9.06</u>				<b>DTW when sampled:</b> <u>14.67</u>			
<b>DTW (static) (fbTOR):</b> <u>7.67</u>		<b>One Well Volume (gal):</b> <u>1.47</u>				<b>Purpose:</b> <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
<b>Total Depth (fbTOR):</b> <u>16.08</u>		<b>Total Volume Purged (gal):</b> <u>4.75</u>				<b>Purge Method:</b> <u>Low Flow, would not be used</u>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1524	0 Initial	20.25	7.45	11.5	2615	60.5	3.03	-69	gray, sl turbid
1527	1 8.65	1.0	7.41	11.8	1739	16.5	2.53	-45	"
1530	2 9.05	1.25	7.35	12.2	1094	83.7	2.34	-7	"
1534	3 9.68	1.75	7.28	12.0	960.3	43.4	2.22	0	sl turbid
1537	4 10.26	2.0	7.27	12.1	1073	28.5	2.13	-11	"
1540	5 11.76	2.25	7.26	12.3	1462	16.6	1.72	-37	"
1543	6 12.36	3.25	7.24	12.3	2173	9.32	1.64	-77	"
1546	7 13.06	4.25	7.29	12.3	2350	14.3	1.62	-84	"
	8								
	9								
	10								
<b>Sample Information:</b> <u>Blind Taken</u>									
	S1	14.63	4.75	7.36	10.1	2503	10.0	1.97	-88
	S2								

<b>Well No.</b>		<b>Diameter (inches):</b>				<b>Sample Date / Time:</b>			
<b>Product Depth (fbTOR):</b>		<b>Water Column (ft):</b>				<b>DTW when sampled:</b>			
<b>DTW (static) (fbTOR):</b>		<b>One Well Volume (gal):</b>				<b>Purpose:</b> <input type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample			
<b>Total Depth (fbTOR):</b>		<b>Total Volume Purged (gal):</b>				<b>Purge Method:</b>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0	Initial								
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
<b>Sample Information:</b>									
	S1								
	S2								

**REMARKS:**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Note: All measurements are in feet, distance from top of riser.

PREPARED BY: TAB



# GROUNDWATER FIELD FORM

Project Name: Trico  
 Location: Buffalo

Date: 11/28/16  
 Field Team: TAB

Project No.: 0092-016-001

18.02  
37.60

Well No. <u>RI-MW-#12</u>		Diameter (inches): <u>2"</u>		Sample Date / Time: <u>11/28/16 1631</u>					
Product Depth (fbTOR): <u>--</u>		Water Column (ft): <u>19.58</u>		DTW when sampled: <u>25.77</u>					
DTW (static) (fbTOR): <u>25.77</u>		One Well Volume (gal): <u>3.19</u>		Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample					
Total Depth (fbTOR): <u>35.77</u>		Total Volume Purged (gal): <u>6.25</u>		Purge Method: <u>Submersible pump / sample by bailer</u>					
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1254	Initial	20.25	6.64	13.2	5914	566	4.50	262	Turb. No. 08
1257	21.19	0.5	7.07	12.9	6398	800	3.08	215	"
1301	21.71	0.75	7.23	12.7	6293	609	2.69	240	"
1304	22.76	1.25	7.32	12.8	5859	796	3.11	221	"
1306	24.71	1.50	7.39	12.8	5614	531	3.83	223	"
1310	26.38	2.0	7.49	13.2	5378	924	5.09	216	"
1312	30.21	2.50	7.51	13.3	5283	489	5.27	181	"
1315	30.72	3.0	7.50	13.6	5325	58.3	5.51	188	"
1317	30.81	3.25	7.45	13.8	5395	131	5.60	189	"
1320	31.41	3.75	7.53	13.7	5410	158	5.56	169	"
1324	32.21	4.25	7.44	13.5	5728	406	3.81	114	"
<b>Sample Information:</b>									
1400	S1 DRY	6.25	7.71	11.8	6208	21000	3.06	93	"
1631	S2 25.77	-	7.53	7.6	2502	14.1	4.62	-96	"

13.81  
35.68

Well No. <u>RI-MW-11</u>		Diameter (inches): <u>2"</u>		Sample Date / Time: <u>11/28/16 1609</u>					
Product Depth (fbTOR): <u>10.02</u>		Water Column (ft): <u>21.87</u>		DTW when sampled: <u>25.61</u>					
DTW (static) (fbTOR): <u>10.02</u>		One Well Volume (gal): <u>3.56</u>		Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample					
Total Depth (fbTOR): <u>32.02</u>		Total Volume Purged (gal): <u>6.25</u>		Purge Method: <u>Submersible Pump/sample</u>					
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1425	Initial	20.25	7.97	11.6	2290	<1000	6.50	123	Turb. No. 01
1427	18.45	0.5	7.83	12.5	2034	570	6.71	158	"
1431	20.72	1.0	7.74	12.6	2011	334	6.77	159	"
1433	22.32	1.75	7.72	12.9	2006	148	6.42	157	"
1436	24.62	2.0	7.70	13.1	2003	99.1	7.08	145	"
1442	26.71	2.25	7.71	13.3	2592	52.2	6.93	113	"
1445	29.31	2.25	7.74	13.4	1984	52.5	7.01	120	"
1447	29.86	4.0	7.72	13.5	2016	177	6.02	77	"
1450	31.12	4.50	7.66	12.8	1978	222	4.66	93	"
1454	32.22	5.5	7.61	12.5	1940	181	3.99	33	"
1457	DRY	6.25	7.52	12.4	2218	60.8	4.40	15	"
<b>Sample Information:</b>									
1609	S1 29.61	-	7.46	8.4	2507	21.7	2.29	-92	"
	S2								

**REMARKS:**

**Volume Calculation**

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

**Stabilization Criteria**

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Note: All measurements are in feet, distance from top of riser.

PREPARED BY: TAB



**EQUIPMENT CALIBRATION LOG**

**PROJECT INFORMATION:**

Project Name: Taco  
 Project No.: 009 2-016-001  
 Client: K&G

Date: 11/28/16

Instrument Source:  BM  Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
<input checked="" type="checkbox"/> pH meter	units	1200	Myron L Company Ultra Meter 6P	6213516 <input type="checkbox"/>		4.00	3.94	4.0
				6212375 <input checked="" type="checkbox"/>		7.00	6.98	7.0
				6223973 <input type="checkbox"/>		10.01	9.98	10.0
<input checked="" type="checkbox"/> Turbidity meter	NTU	1200	Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) <input type="checkbox"/>	TAD	< 0.4 or 10 for 2100Q	9.78	10.0 NTU Verif.
				13120C030432 (Q) <input checked="" type="checkbox"/>		20		
						100		
						800		
<input type="checkbox"/> Turbidity meter	NTU		LaMotte 2020	6523-1816 (La) <input type="checkbox"/>		0.0 NTU 1.0 NTU 10.0 NTU		
<input checked="" type="checkbox"/> Sp. Cond. meter	uS mS	1200	Myron L Company Ultra Meter 6P	6213516 <input type="checkbox"/>		1413 mS @ 25 °C	1417	1413
				6212375 <input checked="" type="checkbox"/>				
				6223973 <input type="checkbox"/>				
<input type="checkbox"/> PID	ppm		MinRAE 2000			open air zero ____ ppm Iso. Gas		MIBK response factor = 1.0
<input checked="" type="checkbox"/> Dissolved Oxygen	ppm		HACH Model HQ30d	0807000023281 <input type="checkbox"/>	TAD	100% Satuartion	100.8% 51.8	✓
				10050041867 <input type="checkbox"/>				
				140200100319 <input checked="" type="checkbox"/>				
<input type="checkbox"/> Particulate meter	mg/m <sup>3</sup>					zero air		
<input type="checkbox"/> Oxygen	%					open air		
<input type="checkbox"/> Hydrogen sulfide	ppm					open air		
<input type="checkbox"/> Carbon monoxide	ppm					open air		
<input type="checkbox"/> LEL	%					open air		
<input type="checkbox"/> Radiation Meter	uR/H					background area		

**ADDITIONAL REMARKS:**

PREPARED BY: TAD

DATE: 11/28/16



# GROUNDWATER FIELD FORM

Project Name: Trico

Date: 12/9/16

Location: Buffalo

Project No.: 0092-016-001

Field Team: T413

4.5

<b>Well No.</b> <u>21MW-9</u>		<b>Diameter (inches):</b> <u>2"</u>				<b>Sample Date / Time:</b> <u>12/9/16 1333</u>			
<b>Product Depth (fbTOR):</b> <u>-</u>		<b>Water Column (ft):</b> <u>9.13</u>				<b>DTW when sampled:</b> <u>13.39</u>			
<b>DTW (static) (fbTOR):</b> <u>7.00</u>		<b>One Well Volume (gal):</b> <u>1.48</u>				<b>Purpose:</b> <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
<b>Total Depth (fbTOR):</b> <u>16.13</u>		<b>Total Volume Purged (gal):</b>				<b>Purge Method:</b> <u>Submersible pump</u>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1238	0 Initial	<del>70.25</del>	6.33	10.1	2667	370	2.20	-64	sl Turbid sl
1241	1 7.92	0.50	6.79	11.4	2396	51.6	3.62	-17	clear No Odor
1244	2 8.63	1.0	6.99	11.3	1785	54.2	5.90	19	"
1248	3 9.0	1.25	7.12	11.3	1387	41	5.99	33	"
1252	4 9.55	1.50	7.20	11.4	1250	12.7	5.66	44	"
1256	5 10.12	2.0	7.24	11.0	14080	<del>10.99</del> 3	5.28	41	"
1300	6 10.55	2.5	7.28	10.8	1499	6.07	5.27	38	"
1303	7 10.91	2.75	7.27	10.7	1554	3.95	4.99	38	"
1309	8 11.41	3.0	7.25	11.1	1675	3.11	5.19	38	"
1314	9 12.20	3.5	7.30	11.2	1773	2.99	5.40	36	
1319	10 12.90	4.0	7.37	11.0	2087	5.75	5.57	33	
<b>Sample Information:</b>									
1323	S1 13.39	4.5	7.37	11.0	2211	6.0	4.93	27	
1333	S2 13.0	-	7.27	10.8	2407	25.8	3.26	-12	

<b>Well No.</b>		<b>Diameter (inches):</b>				<b>Sample Date / Time:</b>			
<b>Product Depth (fbTOR):</b>		<b>Water Column (ft):</b>				<b>DTW when sampled:</b>			
<b>DTW (static) (fbTOR):</b>		<b>One Well Volume (gal):</b>				<b>Purpose:</b> <input type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample			
<b>Total Depth (fbTOR):</b>		<b>Total Volume Purged (gal):</b>				<b>Purge Method:</b>			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0	Initial								
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
<b>Sample Information:</b>									
	S1								
	S2								

**REMARKS:**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Note: All measurements are in feet, distance from top of riser.

**PREPARED BY:** \_\_\_\_\_

# APPENDIX D

## FIELD NYSDOH INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY





# INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

Project Name: Former Trico Plant Site Project No. 0092-013-500  
 Project Location: 791 Washington Street, Buffalo Client: 847 Main Street, LLC  
 Preparer's Name: Josh Robinson Date/Time: \_\_\_\_\_  
 Preparer's Affiliation: Project Scientist, Turnkey Phone No: 716-449-0882  
 Purpose of Investigation: Remedial Investigation and Alternative Analysis Report

### 1. OCCUPANT:

Interviewed: yes  no  No Occupant, building is vacant

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address: \_\_\_\_\_

County: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

Number of Occupants/persons at this location: \_\_\_\_\_ Age of Occupants: \_\_\_\_\_

### 2. OWNER OR LANDLORD: (check if same as occupant \_\_\_\_\_)

Interviewed: yes  no

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address: \_\_\_\_\_

County: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

### 3. BUILDING CHARACTERISTICS

Type of Building: check appropriate response)

- |  |                                 |  |
|--|---------------------------------|--|
| <input type="checkbox"/> Residential           | <input type="checkbox"/> School | <input checked="" type="checkbox"/> Commercial/Multi-use |
| <input checked="" type="checkbox"/> Industrial | <input type="checkbox"/> Church | <input type="checkbox"/> Other: <u>Currently Vacant</u>  |

If the property is residential, type? (check appropriate response) N/A

- |                                       |  |  |
|---------------------------------------|--|--|
| <input type="checkbox"/> Ranch        | <input type="checkbox"/> 2-Family        | <input type="checkbox"/> 3-Family        |
| <input type="checkbox"/> Raised Ranch | <input type="checkbox"/> Split Level     | <input type="checkbox"/> Colonial        |
| <input type="checkbox"/> Cape Cod     | <input type="checkbox"/> Contemporary    | <input type="checkbox"/> Mobile Home     |
| <input type="checkbox"/> Duplex       | <input type="checkbox"/> Apartment House | <input type="checkbox"/> Townhouse/Condo |
| <input type="checkbox"/> Modular      | <input type="checkbox"/> Log Home        | <input type="checkbox"/> Other:          |

If multiple units, how many?

If the property is commercial, type?

Business Type(s): Former Industrial / commercial use, Currently Vacant

Does it include residences (i.e., multi-use)? yes  no  If yes, how many?

### Other Characteristics:

Number of floors 6 with basement Building age 1840's construction

Is the building insulated? yes  no  How air tight? tight  average not tight



# INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

## 4. AIR FLOW

Use air current tubes or tracer smoke to evaluate air flow patterns and qualitatively describe:

Airflow between floors *Was not Completed*

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

## 5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (check all that apply)

- a. Above grade construction:  wood frame     concrete     stone
- b. Basement type:                     full                     crawlspace     slab
- c. Basement floor:                     concrete             dirt                     stone
- d. Basement floor:                     uncovered             covered             covered with \_\_\_\_\_
- e. Concrete floor:                     unsealed             sealed                 sealed with \_\_\_\_\_
- f. Foundation walls:                     poured                 block                     stone
- g. Foundation walls:                     unsealed             sealed                 sealed with \_\_\_\_\_
- h. The basement is:                     wet                     damp                     dry
- i. The basement is:                     finished             unfinished             partially finished
- j. Sump present?                     yes                     no
- k. Water in Sump?                     yes                     no                     not applicable *unknown*

Basement/Lowest level depth below grade: *8 feet below ground surface*

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

*Floor drains throughout northern portion of building in the former oil storage and tool and dye storage areas  
Utility penetrations / man holes in former truck repair area*



# INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

## 6. HEATING, VENTING, and AIR CONDITIONING (check all that apply)

Type of heating system(s) used in this building: (check all that apply - note primary)

- Hot air circulation
- Heat pump
- Hot water baseboard
- Space Heaters
- Steam radiation
- Radiant floor
- Electric baseboard
- Wood stove
- Outdoor wood boiler
- Other None currently, Former Fuel oil

The primary type of fuel used is:

- Natural Gas
- Fuel oil (Formerly)
- Kerosene
- Electric
- Propane
- Solar
- Wood
- Coal
- Other None used at this time

Domestic hot water tank fueled by: Fuel oil (Formerly)

Boiler/furnace located in:

- Basement
- Outdoors
- Main Floor
- Other \_\_\_\_\_

Air Conditioning:

- Central Air
- Window units
- Open Windows
- None \_\_\_\_\_

Are there air distribution ducts present?  yes  no

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

No duct work presently active

## 7. OCCUPANCY

Is basement/lowest level occupied?  Full-time  Occasionally  Seldom  Almost Never  Never

Level      General Use of Each Floor (e.g., family room, bedroom, laundry, workshop, storage)

Basement	<u>unoccupied</u>
First Floor	<u>unoccupied</u>
Second Floor	<u>unoccupied</u>
Third Floor	<u>unoccupied</u>
Fourth Floor	<u>unoccupied</u>



# INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage?  yes  no
- b. Does the garage have a separate heating unit?  yes  no  NA
- c. Are petroleum-powered machines or vehicles stored in the garage?  yes  no  NA  
(e.g., lawnmower, atv, car) If yes, please specify: \_\_\_\_\_
- d. Has the building ever had a fire?  yes  no  
If yes, when? \_\_\_\_\_
- e. Is a kerosene or unvented gas space heater present?  yes  no  
If yes, where? \_\_\_\_\_
- f. Is there a workshop or hobby/craft area?  yes  no  
If yes, where and type? \_\_\_\_\_
- g. Is there smoking in the building?  yes  no  
If yes, how frequently? \_\_\_\_\_
- h. Have cleaning products been used recently?  yes  no  
If yes, when & type? \_\_\_\_\_
- i. Have cosmetic products been used recently?  yes  no  
If yes, when & type? \_\_\_\_\_
- j. Has painting/staining been done in the last 6 months?  yes  no  
If yes, where & when? \_\_\_\_\_
- k. Is there new carpet, drapes, or other textiles?  yes  no  
If yes, where & when? \_\_\_\_\_
- l. Have air fresheners been used recently?  yes  no  
If yes, when & type? \_\_\_\_\_
- m. Is there a kitchen exhaust fan?  yes  no *N/A*  
If yes, where vented? \_\_\_\_\_
- n. Is there a bathroom exhaust fan?  yes  no *N/A*  
If yes, where vented? \_\_\_\_\_



# INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY (continued)

o. Is there a clothes dryer?  yes  no  
If yes, is it vented outside? yes no

p. Has there been a pesticide application?  yes  no  
If yes, when & type? \_\_\_\_\_

q. Are there odors in the building?  yes  no  
If yes, please describe? musty / pung odors

r. Do any of the building occupants use solvents at work?  yes  no  
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)  
If yes, what types of solvents are used? \_\_\_\_\_  
If yes, are their clothes washed at work?  yes  no

s. Do any of the building occupants regularly use or work at a dry-cleaning service?  
(check appropriate response)  
 yes, use dry-cleaning regularly (weekly)  no  
 yes, use dry-cleaning infrequently (monthly or less)  unknown  
 yes, work at a dry-cleaning service

t. Is there a radon mitigation system for the building/structure?  yes  no  
If yes, date of installation? \_\_\_\_\_  
Is the system active or passive? \_\_\_\_\_

## 9. WATER AND SEWAGE

Water Supply:  Public Water  Drilled Well  Driven Well  Dug Well  
 Other: not currently in use

Sewage Disposal:  Public Sewer  Septic Tank  Leach Field  Dry Well  
 Other: not currently in use

## 10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: \_\_\_\_\_  
b. Residents choose to:  remain in home  relocate to friends/family  relocate to hotel/motel  
c. Responsibility for costs associated with reimbursement explained?  yes  no  
d. Relocation package provided and explained to residents?  yes  no



# INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

## 11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

### Basement:

A large sheet of graph paper with a grid pattern. In the center, the words "See Figure 3" are written in a cursive, handwritten style in black ink.

### First Floor:

A large sheet of graph paper with a grid pattern. In the center, the words "See Figure 3" are written in a cursive, handwritten style in black ink.



# INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

## 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s), and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and spetic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

A large grid area for drawing a sketch. The handwritten text "See Figures 2 and 5" is centered on the grid.

## INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

### 13. PRODUCT INVENTORY FORM

**Make & Model of field instrument used:** MiniRae 3000

**List specific products found in the structure that have the potential to affect indoor air quality.**

Location	Product Description	Size (units)	Condition 1	Chemical Ingredients	Field Instrument Reading (units)	Photo (Y/N)
FOSA	WD-40	1 Can	D		0 ppm	Y
FOSA	Windex	1 Bottle	U		0 ppm	Y
FOSA	Cleaning Product	2 Bottles	U		0 ppm	Y
FOSA	Paint thinner	5 Gallon	U		0 ppm	Y
FOSA	Chaulk	6 Gallon	U		0 ppm	Y
FOSA	Paint	4 Cans	D		0 ppm	Y
FOSA	Spray Paint	6 Cans	D		0 ppm	Y
FOSA	Concrete mix	3 Bags	U		0 ppm	Y
FOSA	Drywall mix	2 Buckets	U		0 ppm	Y
FOSA	Foundation Coating	1 Bucket	U		0 ppm	Y
FOSA	Graffiti Remover	1 Can	U		0 ppm	Y
FOSA	Caulk	3 Tubes	U		0 ppm	Y
FOSA	Refridgeration Oil	2 Gallons	U		0 ppm	Y
FOSA	Oil/ Grease Cans	7 Cans	D		0 ppm	Y
FOSA	Oil Jugs	4 Jugs	U		0 ppm	Y
FOSA	Oil/ Gas Buckets	3 Buckets	D		0 ppm	Y
FOSA	Kano Kroil Oil	1 Gallon	U		0 ppm	Y
FOSA	Lightbulbs	3 Bulbs	U		0 ppm	Y
FOSA	Chemical Sprayer	1 Sprayer	U		0 ppm	Y
C+ATA	Compressors	Multiple	U		0 ppm	Y
FOP	Auto Battery	8 Units	D		0 ppm	Y
FOP	Mercury Thermostat	1 Unit	U		0 ppm	Y

**Notes:**

1. Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**.
2. Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.
3. FOSA - Former Oil Storage Area
4. C+ATA - Compressor and Air Tanks Area
5. FOP - Fuel Oil Pumps Area





# AIR CANISTER FIELD RECORD

## PROJECT INFORMATION:

Project: Former Trico plant  
 Job No: 6092-013-500  
 Location: 791 Washington Street Buffalo, NY  
 Field Staff: JJR +  
 Client: 847 Main Street, LLC

**SAMPLE I.D.:**  
  
SSV-1

## WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 54°F  
 Ambient Air Temp. - P.M.:  
 Wind Direction: South/Southwest  
 Wind Speed: 4 mph  
 Precipitation: None

Size of Canister: 6L  
 Canister Serial No.: 3686  
 Flow Controller No.: 3170  
 Sample Date(s): 5/19/2016  
 Shipping Date:  
 Sample Type:  Indoor Air  Outdoor Air  
 Subslab, complete section below  Soil Gas  
 Soil Gas Probe Depth:

## FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	<u>N/A</u>	<u>-29.6</u>	<u>4/20/16</u>	<u>JJR</u>
Field Vacuum Check <sup>1</sup>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Initial Field Vacuum <sup>2</sup>	<u>1150</u>	<u>-30.4</u>	<u>5/19/16</u>	<u>JJR</u>
Final Field Vacuum <sup>3</sup>	<u>10:24</u>	<u>-5</u>	<u>5/20/16</u>	<u>NAS</u>
Duration of Sample Collection				

## LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	<u>-29.6</u>
Final Pressure (psia)	
Pressurization Gas	

## SUBSLAB SHROUD:

Shroud Helium Concentration: 83%  
 Calculated tubing volume:                      x 3 =  
 Purged Tubing Volume Concentration: 2.3%  
 Is the purged volume concentration less than or equal to 10% in shroud?  
 YES, continue sampling  
 NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

## NOTES:

- Vacuum measured using portable vacuum gauge (provided by Lab)
- Vacuum measured by canister gauge upon opening valve
- Vacuum measured by canister gauge prior to closing valve

Signed: Josh Robinson



# AIR CANISTER FIELD RECORD

## PROJECT INFORMATION:

Project: Former Trico Plant  
 Job No: 0092-013-500  
 Location: 791 Washington Street  
 Field Staff: JJR +  
 Client: 847 Main Street, LLC

### SAMPLE I.D.:

SSV-2

## WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 54°F  
 Ambient Air Temp. - P.M.:  
 Wind Direction: South/Southwest  
 Wind Speed: 4 mph  
 Precipitation: None

Size of Canister: 6L  
 Canister Serial No.: 5151  
 Flow Controller No.: 3683  
 Sample Date(s): 5/19/2016  
 Shipping Date:  
 Sample Type:  Indoor Air  Outdoor Air  
 Subslab, complete section below  Soil Gas  
 Soil Gas Probe Depth:

## FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	<u>N/A</u>	<u>-29.5</u>	<u>5/3/16</u>	<u>JJR</u>
Field Vacuum Check <sup>1</sup>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Initial Field Vacuum <sup>2</sup>	<u>11:51</u>	<u>-30.2</u>	<u>5/14/16</u>	<u>JJR</u>
Final Field Vacuum <sup>3</sup>	<u>10:45</u>	<u>-6</u>	<u>5/20/16</u>	<u>NAS</u>
Duration of Sample Collection				

## LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	<u>-29.5</u>
Final Pressure (psia)	
Pressurization Gas	

## SUBSLAB SHROUD:

Shroud Helium Concentration: 79% over 1 minute  
 Calculated tubing volume: x 3 =  
 Purged Tubing Volume Concentration: Open  
 Is the purged volume concentration less than or equal to 10% in shroud?  
 YES, continue sampling  
 NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

## NOTES:

- Vacuum measured using portable vacuum gauge (provided by Lab)
- Vacuum measured by canister gauge upon opening valve
- Vacuum measured by canister gauge prior to closing valve

Signed: Josh Robinson



# AIR CANISTER FIELD RECORD

## PROJECT INFORMATION:

Project: Former Trico Plant  
 Job No: 0092-013-500  
 Location: 791 Washington Street  
 Field Staff: Josh Robinson + Nick  
 Client: 847 Main Street, LLC

### SAMPLE I.D.:

SSU-3

## WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 54°F  
 Ambient Air Temp. - P.M.:  
 Wind Direction: South/Southwest  
 Wind Speed: 4 mph  
 Precipitation: None

Size of Canister: 6L  
 Canister Serial No.: 3161  
 Flow Controller No.: 3127  
 Sample Date(s): 5/14/16  
 Shipping Date:  
 Sample Type:  Indoor Air  Outdoor Air  
 Subslab, complete section below  Soil Gas  
 Soil Gas Probe Depth:

## FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	N/A	-29.6	4/27/16	JJR
Field Vacuum Check <sup>1</sup>	-	-	-	-
Initial Field Vacuum <sup>2</sup>	1203	-29.3	5/19/16	JJR
Final Field Vacuum <sup>3</sup>	11:12	-7	5/20/16	NAS
Duration of Sample Collection				

## LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	
Final Pressure (psia)	
Pressurization Gas	

## SUBSLAB SHROUD:

Shroud Helium Concentration: 75%  
 Calculated tubing volume: x 3 =  
 Purged Tubing Volume Concentration: 7500 PPM  
 Is the purged volume concentration less than or equal to 10% in shroud?  
 YES, continue sampling  
 NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

## NOTES:

- Vacuum measured using portable vacuum gauge (provided by Lab)
- Vacuum measured by canister gauge upon opening valve
- Vacuum measured by canister gauge prior to closing valve

Signed: \_\_\_\_\_



# AIR CANISTER FIELD RECORD

## PROJECT INFORMATION:

Project: Former Trico Plant  
 Job No: 0092-013-500  
 Location: 791 Washington Street Buffalo, NY  
 Field Staff: Josh Robinson + Nick  
 Client: 847 Main Street, LLC

**SAMPLE I.D.:**  
 SSU-4

## WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 64°F  
 Ambient Air Temp. - P.M.:  
 Wind Direction: south/southwest  
 Wind Speed: 4 mph  
 Precipitation: None

Size of Canister: 6L  
 Canister Serial No.: 2778  
 Flow Controller No.: 5227  
 Sample Date(s): 5/19  
 Shipping Date:  
 Sample Type:  Indoor Air  Outdoor Air  
 Subslab, complete section below  Soil Gas  
 Soil Gas Probe Depth:

## FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	N/A	-29.6	4/21/16	JTR
Field Vacuum Check <sup>1</sup>	-	-	-	-
Initial Field Vacuum <sup>2</sup>	11:53	-30.1	5/19/16	JTR
Final Field Vacuum <sup>3</sup>	11:08	-8	5/20/16	NAS
Duration of Sample Collection				

## LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)		
Final Pressure (psia)		
Pressurization Gas		

## SUBSLAB SHROUD:

Shroud Helium Concentration: 81.2%  
 Calculated tubing volume: x 3 =  
 Purged Tubing Volume Concentration: 600ppm  
 Is the purged volume concentration less than or equal to 10% in shroud?  
 YES, continue sampling  
 NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

## NOTES:

- Vacuum measured using portable vacuum gauge (provided by Lab)
- Vacuum measured by canister gauge upon opening valve
- Vacuum measured by canister gauge prior to closing valve

Signed: Josh Robinson



# AIR CANISTER FIELD RECORD

## PROJECT INFORMATION:

Project: Former Trico Plant  
 Job No: 0092-013-500  
 Location: 791 Washington Street  
 Field Staff: Josh Robinson + Nick  
 Client: 847 Main Street, LLC

### SAMPLE I.D.:

SSU-5

## WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 54°  
 Ambient Air Temp. - P.M.:  
 Wind Direction:  
 Wind Speed:  
 Precipitation:

### Size of Canister:

Canister Serial No.: 5400

Flow Controller No.: 4510

Sample Date(s): 5/19/16

Shipping Date:

Sample Type:  Indoor Air  Outdoor Air

Subslab, complete section below  Soil Gas

Soil Gas Probe Depth:

## FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	<u>N/A</u>	<u>-29.5</u>	<u>5/17/16</u>	<u>JSR</u>
Field Vacuum Check <sup>1</sup>				
Initial Field Vacuum <sup>2</sup>	<u>11:55</u>	<u>-37.5</u>	<u>5/19/16</u>	<u>JSR</u>
Final Field Vacuum <sup>3</sup>	<u>10:52</u>	<u>-5</u>	<u>5/20/16</u>	<u>NAS</u>
Duration of Sample Collection				

## LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)		
Final Pressure (psia)		
Pressurization Gas		

## SUBSLAB SHROUD:

Shroud Helium Concentration: 85%  
 Calculated tubing volume: \_\_\_\_\_ x 3 =  
 Purged Tubing Volume Concentration: 5.4%  
 Is the purged volume concentration less than or equal to 10% in shroud?  
 YES, continue sampling  
 NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

## NOTES:

- Vacuum measured using portable vacuum gauge (provided by Lab)
- Vacuum measured by canister gauge upon opening valve
- Vacuum measured by canister gauge prior to closing valve

Signed: \_\_\_\_\_



# AIR CANISTER FIELD RECORD

## PROJECT INFORMATION:

Project: Former Trico Plant  
 Job No: 0092-013-500  
 Location: 791 Washington Street Buffalo, NY  
 Field Staff: Josh Robinson + Nick  
 Client: 847 Main Street, LLC

**SAMPLE I.D.:**  
  
55U-6

## WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: \_\_\_\_\_  
 Ambient Air Temp. - P.M.: \_\_\_\_\_  
 Wind Direction: \_\_\_\_\_  
 Wind Speed: \_\_\_\_\_  
 Precipitation: \_\_\_\_\_

Size of Canister: 6L  
 Canister Serial No.: 4316  
 Flow Controller No.: 2930  
 Sample Date(s): 5/14-5/20  
 Shipping Date: \_\_\_\_\_  
 Sample Type:  Indoor Air  Outdoor Air  
 Subslab, complete section below  Soil Gas  
 Soil Gas Probe Depth: \_\_\_\_\_

## FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	<u>N/A</u>	<u>-29.6</u>	<u>7/27/16</u>	<u>JJR</u>
Field Vacuum Check <sup>1</sup>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Initial Field Vacuum <sup>2</sup>	<u>1159</u>	<u>-33.7</u>	<u>5/19/16</u>	<u>JJR</u>
Final Field Vacuum <sup>3</sup>	<u>11:00</u>	<u>-5</u>	<u>5/20/16</u>	<u>NAS</u>
Duration of Sample Collection				

## LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	
Final Pressure (psia)	
Pressurization Gas	

## SUBSLAB SHROUD:

Shroud Helium Concentration: 85.3%  
 Calculated tubing volume: \_\_\_\_\_ x 3 = \_\_\_\_\_  
 Purged Tubing Volume Concentration: 0 PPM  
 Is the purged volume concentration less than or equal to 10% in shroud?  
 YES, continue sampling  
 NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

## NOTES:

- Vacuum measured using portable vacuum gauge (provided by Lab)
- Vacuum measured by canister gauge upon opening valve
- Vacuum measured by canister gauge prior to closing valve

Signed:



# AIR CANISTER FIELD RECORD

## PROJECT INFORMATION:

Project: Former Trico Plant  
 Job No: 0092-013-500  
 Location: 791 Washington Street  
 Field Staff: Josh Robinson + Nick  
 Client: 847 Main Street, LLC

### SAMPLE I.D.:

SSV-7

## WEATHER CONDITIONS:

Ambient Air Temp. - A.M.:  
 Ambient Air Temp. - P.M.:  
 Wind Direction:  
 Wind Speed:  
 Precipitation:

Size of Canister: 20L  
 Canister Serial No.: 3274  
 Flow Controller No.: 4048  
 Sample Date(s): 5/19/16  
 Shipping Date:  
 Sample Type:  Indoor Air  Outdoor Air  
 Subslab, complete section below  Soil Gas  
 Soil Gas Probe Depth:

## FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	<u>N/A</u>	<u>-29.6</u>	<u>4/27/11</u>	<u>OJR</u>
Field Vacuum Check <sup>1</sup>				
Initial Field Vacuum <sup>2</sup>	<u>11:48</u>	<u>-30.2</u>	<u>5/19/16</u>	<u>JTR</u>
Final Field Vacuum <sup>3</sup>	<u>11:31</u>	<u>-5</u>	<u>5/26/16</u>	<u>NAS</u>
Duration of Sample Collection				

## LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	
Final Pressure (psia)	
Pressurization Gas	

## SUBSLAB SHROUD:

Shroud Helium Concentration: 86%

Calculated tubing volume: x 3 =

Purged Tubing Volume Concentration: 2%

Is the purged volume concentration less than or equal to 10% in shroud?

- YES, continue sampling  
 NO, improve surface seal and retest

## NOTES:

- 1 Vacuum measured using portable vacuum gauge (provided by Lab)  
 2 Vacuum measured by canister gauge upon opening valve  
 3 Vacuum measured by canister gauge prior to closing valve

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

Signed:

Josh Robinson



# AIR CANISTER FIELD RECORD

## PROJECT INFORMATION:

Project: Former Trisco Plant  
 Job No: 0092-013-500  
 Location: 791 Washington Street Buffalo, NY  
 Field Staff: Josh Robinson + Nick  
 Client: 847 Main Street, LLC

**SAMPLE I.D.:**  
  
IA-1

## WEATHER CONDITIONS:

Ambient Air Temp. - A.M.:  
 Ambient Air Temp. - P.M.:  
 Wind Direction:  
 Wind Speed:  
 Precipitation:

Size of Canister: 6L  
 Canister Serial No.: 3140  
 Flow Controller No.: 5198  
 Sample Date(s): 5/11  
 Shipping Date:  
 Sample Type:  Indoor Air  Outdoor Air  
 Subslab, complete section below  Soil Gas  
 Soil Gas Probe Depth:

## FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	<u>N/A</u>	<u>-29.3</u>	<u>5/3/16</u>	<u>JJR</u>
Field Vacuum Check <sup>1</sup>				
Initial Field Vacuum <sup>2</sup>	<u>1202</u>	<u>-30.8</u>	<u>5/19/16</u>	<u>JJR</u>
Final Field Vacuum <sup>3</sup>	<u>1140</u>	<u>-5</u>	<u>5/26/16</u>	<u>NAS</u>
Duration of Sample Collection				

## LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	
Final Pressure (psia)	
Pressurization Gas	

## SUBSLAB SHROUD: N/A

Shroud Helium Concentration:  
 Calculated tubing volume: x 3 =  
 Purged Tubing Volume Concentration:  
 Is the purged volume concentration less than or equal to 10% in shroud?  
 YES, continue sampling  
 NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

## NOTES:

- Vacuum measured using portable vacuum gauge (provided by Lab)
- Vacuum measured by canister gauge upon opening valve
- Vacuum measured by canister gauge prior to closing valve

Signed: Josh Robinson





# AIR CANISTER FIELD RECORD

## PROJECT INFORMATION:

Project: Former Trico Plant  
 Job No: 0092-013-500  
 Location: 791 Washington Street Buffalo, NY  
 Field Staff: Josh Robinson + Nick  
 Client: 847 Main Street, LLC

**SAMPLE I.D.:**  
  
IA-2

## WEATHER CONDITIONS:

Ambient Air Temp. - A.M.:  
 Ambient Air Temp. - P.M.:  
 Wind Direction:  
 Wind Speed:  
 Precipitation:

Size of Canister: 6L  
 Canister Serial No.: 5730  
 Flow Controller No.: 4107  
 Sample Date(s): 5/19  
 Shipping Date:  
 Sample Type:  Indoor Air  Outdoor Air  
 Subslab, complete section below  Soil Gas  
 Soil Gas Probe Depth:

## FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	<u>N/A</u>	<u>-29.6</u>	<u>4/27/16</u>	<u>JJR</u>
Field Vacuum Check <sup>1</sup>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Initial Field Vacuum <sup>2</sup>	<u>11:58</u>	<u>-30.1</u>	<u>5/19/16</u>	<u>JJR</u>
Final Field Vacuum <sup>3</sup>	<u>11:05</u>	<u>-5</u>	<u>5/20/16</u>	<u>IVAE</u>
Duration of Sample Collection				

## LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	
Final Pressure (psia)	
Pressurization Gas	

## SUBSLAB SHROUD:

Shroud Helium Concentration:  
 Calculated tubing volume: x 3 =  
 Purged Tubing Volume Concentration:  
 Is the purged volume concentration less than or equal to 10% in shroud?  
 YES, continue sampling  
 NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

## NOTES:

- Vacuum measured using portable vacuum gauge (provided by Lab)
- Vacuum measured by canister gauge upon opening valve
- Vacuum measured by canister gauge prior to closing valve

Signed: Josh Robinson



# AIR CANISTER FIELD RECORD

## PROJECT INFORMATION:

Project: Trico  
 Job No: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Field Staff: \_\_\_\_\_  
 Client: \_\_\_\_\_

**SAMPLE I.D.:**  
OA-1

## WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: \_\_\_\_\_  
 Ambient Air Temp. - P.M.: \_\_\_\_\_  
 Wind Direction: \_\_\_\_\_  
 Wind Speed: \_\_\_\_\_  
 Precipitation: \_\_\_\_\_

Size of Canister: 6L  
 Canister Serial No.: 3338  
 Flow Controller No.: 4940  
 Sample Date(s): 5/19  
 Shipping Date: \_\_\_\_\_  
 Sample Type:  Indoor Air  Outdoor Air  
 Subslab, complete section below  Soil Gas  
 Soil Gas Probe Depth: \_\_\_\_\_

## FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	<u>N/A</u>	<u>-29.6</u>	<u>4/27/16</u>	<u>JJR</u>
Field Vacuum Check <sup>1</sup>				
Initial Field Vacuum <sup>2</sup>	<u>1205</u>	<u>-29.8</u>	<u>5/19/16</u>	<u>JJR</u>
Final Field Vacuum <sup>3</sup>	<u>11:22</u>	<u>-7</u>	<u>5/20/16</u>	<u>UHS</u>
Duration of Sample Collection				

## LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	
Final Pressure (psia)	
Pressurization Gas	

## SUBSLAB SHROUD:

Shroud Helium Concentration: N/A  
 Calculated tubing volume: \_\_\_\_\_ x 3 = \_\_\_\_\_  
 Purged Tubing Volume Concentration: \_\_\_\_\_  
 Is the purged volume concentration less than or equal to 10% in shroud?  
 YES, continue sampling  
 NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

## NOTES:

- Vacuum measured using portable vacuum gauge (provided by Lab)
- Vacuum measured by canister gauge upon opening valve
- Vacuum measured by canister gauge prior to closing valve

Signed: [Signature]

# APPENDIX E

## LABORATORY ANALYTICAL DATA PACKAGES

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Burlington

30 Community Drive

Suite 11

South Burlington, VT 05403

Tel: (802)660-1990

TestAmerica Job ID: 200-33696-1

Client Project/Site: Benchmark - 791 Washington St., Buffalo

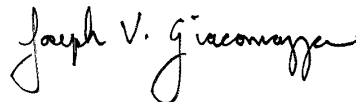
For:

Turnkey Environmental Restoration, LLC

2558 Hamburg Turnpike

Lackawanna, New York 14218

Attn: Mr. Christopher Z Boron



Authorized for release by:

6/1/2016 2:53:09 PM

Joe Giacomazza, Project Management Assistant II

[joe.giacomazza@testamericainc.com](mailto:joe.giacomazza@testamericainc.com)

Designee for

Brian Fischer, Manager of Project Management

(716)504-9835

[brian.fischer@testamericainc.com](mailto:brian.fischer@testamericainc.com)

### LINKS

Review your project  
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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Qualifiers

### Air - GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Job ID: 200-33696-1**

**Laboratory: TestAmerica Burlington**

## Narrative

### Job Narrative 200-33696-1

#### Receipt

The samples were received on 5/25/2016 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

#### Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): SV-1 (200-33696-1), SV-2 (200-33696-2), SV-3 (200-33696-3), SV-4 (200-33696-4), SV-5 (200-33696-5), SV-6 (200-33696-6), SV-7 (200-33696-7), IA-1 (200-33696-8), IA-2 (200-33696-9) and OA-1 (200-33696-10).

For all samples the COC reads 05/20/2016 for an end sample date, while the sample ID tags all read 05/19/2016. Logged in per COC.

Sample #3 (SV-3); the COC reads 11:12 for a sample time, while the sample ID tag does not have a sample time recorded. Logged in per COC.

Sample #8 (IA-1); the COC reads 11:10 for a sample time, while the sample ID tag does not have a sample time recorded. Logged in per COC.

Sample #9 (IA-2); the COC reads 5719 for a canister ID, while the actual canister ID is 5730. Logged in as 5730.

Sample #10 (OA-1); the COC reads 4942 for a FC ID, while the actual FC ID is 4940. Logged in as 4940.

#### Air Toxics

Method(s) TO-15: The continuing calibration verification (CCV) associated with batch 200-105000 recovered above the upper control limit for 1,4-Dioxane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-1**

**Lab Sample ID: 200-33696-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.061	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA
Acetone	2.6	J	5.0	0.86	ppb v/v	1		TO-15	Total/NA
Benzene	0.20		0.20	0.042	ppb v/v	1		TO-15	Total/NA
Bromodichloromethane	0.048	J	0.20	0.030	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.15	J	0.50	0.043	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.041	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Chloroform	2.4		0.20	0.082	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.098	J	0.50	0.093	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.10	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.50		0.50	0.080	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.049	J	0.20	0.033	ppb v/v	1		TO-15	Total/NA
Freon TF	0.076	J	0.20	0.075	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.17	J	0.50	0.071	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.51		0.50	0.052	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.25	J	0.50	0.18	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.096	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.24		0.20	0.054	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.22		0.20	0.023	ppb v/v	1		TO-15	Total/NA
Toluene	0.64		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.28		0.20	0.039	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.29		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Xylene (total)	0.24	J	0.70	0.037	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.065	J	0.20	0.037	ppb v/v	1		TO-15	Total/NA
Naphthalene	0.11	J B	0.50	0.057	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.30	J	0.98	0.21	ug/m3	1		TO-15	Total/NA
Acetone	6.2	J	12	2.0	ug/m3	1		TO-15	Total/NA
Benzene	0.63		0.64	0.13	ug/m3	1		TO-15	Total/NA
Bromodichloromethane	0.32	J	1.3	0.20	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.48	J	1.6	0.13	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.26	J	1.3	0.20	ug/m3	1		TO-15	Total/NA
Chloroform	12		0.98	0.40	ug/m3	1		TO-15	Total/NA
Chloromethane	0.20	J	1.0	0.19	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.35	J	0.69	0.13	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		2.5	0.40	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.21	J	0.87	0.14	ug/m3	1		TO-15	Total/NA
Freon TF	0.58	J	1.5	0.57	ug/m3	1		TO-15	Total/NA
m,p-Xylene	0.74	J	2.2	0.31	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	1.5		1.5	0.15	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.88	J	1.7	0.63	ug/m3	1		TO-15	Total/NA
n-Heptane	0.39	J	0.82	0.16	ug/m3	1		TO-15	Total/NA
n-Hexane	0.84		0.70	0.19	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.5		1.4	0.16	ug/m3	1		TO-15	Total/NA
Toluene	2.4		0.75	0.35	ug/m3	1		TO-15	Total/NA
Trichloroethene	1.5		1.1	0.21	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.21	ug/m3	1		TO-15	Total/NA
Xylene (total)	1.0	J	3.0	0.16	ug/m3	1		TO-15	Total/NA
Xylene, o-	0.28	J	0.87	0.16	ug/m3	1		TO-15	Total/NA
Naphthalene	0.56	J B	2.6	0.30	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington



# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-2**

**Lab Sample ID: 200-33696-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.11	J	0.30	0.065	ppb v/v	1.5		TO-15	Total/NA
1,2-Dichloroethene, Total	0.13	J	0.60	0.053	ppb v/v	1.5		TO-15	Total/NA
Acetone	17		7.5	1.3	ppb v/v	1.5		TO-15	Total/NA
Benzene	0.53		0.30	0.063	ppb v/v	1.5		TO-15	Total/NA
Bromodichloromethane	0.28	J	0.30	0.045	ppb v/v	1.5		TO-15	Total/NA
Carbon disulfide	0.28	J	0.75	0.065	ppb v/v	1.5		TO-15	Total/NA
Carbon tetrachloride	0.12	J	0.30	0.048	ppb v/v	1.5		TO-15	Total/NA
Chloroform	19		0.30	0.12	ppb v/v	1.5		TO-15	Total/NA
cis-1,2-Dichloroethene	0.13	J	0.30	0.053	ppb v/v	1.5		TO-15	Total/NA
Cyclohexane	1.1		0.30	0.059	ppb v/v	1.5		TO-15	Total/NA
Dichlorodifluoromethane	0.60	J	0.75	0.12	ppb v/v	1.5		TO-15	Total/NA
Ethylbenzene	0.089	J	0.30	0.050	ppb v/v	1.5		TO-15	Total/NA
Freon TF	0.11	J	0.30	0.11	ppb v/v	1.5		TO-15	Total/NA
m,p-Xylene	0.32	J	0.75	0.11	ppb v/v	1.5		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	0.13	J	0.75	0.086	ppb v/v	1.5		TO-15	Total/NA
Methyl Ethyl Ketone	1.3		0.75	0.078	ppb v/v	1.5		TO-15	Total/NA
methyl isobutyl ketone	0.16	J	0.75	0.075	ppb v/v	1.5		TO-15	Total/NA
Methylene Chloride	0.44	J	0.75	0.27	ppb v/v	1.5		TO-15	Total/NA
n-Heptane	0.42		0.30	0.060	ppb v/v	1.5		TO-15	Total/NA
n-Hexane	0.85		0.30	0.081	ppb v/v	1.5		TO-15	Total/NA
Tetrachloroethene	0.35		0.30	0.035	ppb v/v	1.5		TO-15	Total/NA
Toluene	0.95		0.30	0.14	ppb v/v	1.5		TO-15	Total/NA
Trichloroethene	49		0.30	0.059	ppb v/v	1.5		TO-15	Total/NA
Trichlorofluoromethane	0.37		0.30	0.057	ppb v/v	1.5		TO-15	Total/NA
Xylene (total)	0.44	J	1.1	0.056	ppb v/v	1.5		TO-15	Total/NA
Xylene, o-	0.12	J	0.30	0.056	ppb v/v	1.5		TO-15	Total/NA
Naphthalene	0.10	J	0.75	0.086	ppb v/v	1.5		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.52	J	1.5	0.32	ug/m3	1.5		TO-15	Total/NA
1,2-Dichloroethene, Total	0.52	J	2.4	0.21	ug/m3	1.5		TO-15	Total/NA
Acetone	40		18	3.1	ug/m3	1.5		TO-15	Total/NA
Benzene	1.7		0.96	0.20	ug/m3	1.5		TO-15	Total/NA
Bromodichloromethane	1.9	J	2.0	0.30	ug/m3	1.5		TO-15	Total/NA
Carbon disulfide	0.88	J	2.3	0.20	ug/m3	1.5		TO-15	Total/NA
Carbon tetrachloride	0.78	J	1.9	0.30	ug/m3	1.5		TO-15	Total/NA
Chloroform	93		1.5	0.60	ug/m3	1.5		TO-15	Total/NA
cis-1,2-Dichloroethene	0.50	J	1.2	0.21	ug/m3	1.5		TO-15	Total/NA
Cyclohexane	4.0		1.0	0.20	ug/m3	1.5		TO-15	Total/NA
Dichlorodifluoromethane	3.0	J	3.7	0.59	ug/m3	1.5		TO-15	Total/NA
Ethylbenzene	0.39	J	1.3	0.21	ug/m3	1.5		TO-15	Total/NA
Freon TF	0.87	J	2.3	0.86	ug/m3	1.5		TO-15	Total/NA
m,p-Xylene	1.4	J	3.3	0.46	ug/m3	1.5		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	0.53	J	3.1	0.35	ug/m3	1.5		TO-15	Total/NA
Methyl Ethyl Ketone	3.8		2.2	0.23	ug/m3	1.5		TO-15	Total/NA
methyl isobutyl ketone	0.66	J	3.1	0.31	ug/m3	1.5		TO-15	Total/NA
Methylene Chloride	1.5	J	2.6	0.94	ug/m3	1.5		TO-15	Total/NA
n-Heptane	1.7		1.2	0.25	ug/m3	1.5		TO-15	Total/NA
n-Hexane	3.0		1.1	0.29	ug/m3	1.5		TO-15	Total/NA
Tetrachloroethene	2.4		2.0	0.23	ug/m3	1.5		TO-15	Total/NA
Toluene	3.6		1.1	0.53	ug/m3	1.5		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Client Sample ID: SV-2 (Continued)

## Lab Sample ID: 200-33696-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	260		1.6	0.31	ug/m3	1.5		TO-15	Total/NA
Trichlorofluoromethane	2.1		1.7	0.32	ug/m3	1.5		TO-15	Total/NA
Xylene (total)	1.9	J	4.6	0.24	ug/m3	1.5		TO-15	Total/NA
Xylene, o-	0.53	J	1.3	0.24	ug/m3	1.5		TO-15	Total/NA
Naphthalene	0.53	J	3.9	0.45	ug/m3	1.5		TO-15	Total/NA

## Client Sample ID: SV-3

## Lab Sample ID: 200-33696-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	160		57	13	ppb v/v	286		TO-15	Total/NA
1,1-Dichloroethane	72		57	7.2	ppb v/v	286		TO-15	Total/NA
1,2-Dichloroethene, Total	210		110	10	ppb v/v	286		TO-15	Total/NA
Chloroform	34	J	57	23	ppb v/v	286		TO-15	Total/NA
cis-1,2-Dichloroethene	180		57	10	ppb v/v	286		TO-15	Total/NA
trans-1,2-Dichloroethene	25	J	57	12	ppb v/v	286		TO-15	Total/NA
Trichloroethene	3500		57	11	ppb v/v	286		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	890		310	72	ug/m3	286		TO-15	Total/NA
1,1-Dichloroethane	290		230	29	ug/m3	286		TO-15	Total/NA
1,2-Dichloroethene, Total	810		450	40	ug/m3	286		TO-15	Total/NA
Chloroform	160	J	280	110	ug/m3	286		TO-15	Total/NA
cis-1,2-Dichloroethene	730		230	40	ug/m3	286		TO-15	Total/NA
trans-1,2-Dichloroethene	99	J	230	49	ug/m3	286		TO-15	Total/NA
Trichloroethene	19000		310	60	ug/m3	286		TO-15	Total/NA

## Client Sample ID: SV-4

## Lab Sample ID: 200-33696-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.4		0.40	0.092	ppb v/v	2		TO-15	Total/NA
1,1-Dichloroethane	0.22	J	0.40	0.050	ppb v/v	2		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.16	J	0.40	0.086	ppb v/v	2		TO-15	Total/NA
1,2-Dichloroethene, Total	5.1		0.80	0.070	ppb v/v	2		TO-15	Total/NA
2,2,4-Trimethylpentane	0.46		0.40	0.078	ppb v/v	2		TO-15	Total/NA
Acetone	5.2	J	10	1.7	ppb v/v	2		TO-15	Total/NA
Benzene	1.0		0.40	0.084	ppb v/v	2		TO-15	Total/NA
Bromodichloromethane	0.098	J	0.40	0.060	ppb v/v	2		TO-15	Total/NA
Carbon disulfide	0.60	J	1.0	0.086	ppb v/v	2		TO-15	Total/NA
Chloroform	3.4		0.40	0.16	ppb v/v	2		TO-15	Total/NA
cis-1,2-Dichloroethene	4.5		0.40	0.070	ppb v/v	2		TO-15	Total/NA
Cyclohexane	0.98		0.40	0.078	ppb v/v	2		TO-15	Total/NA
Dichlorodifluoromethane	0.55	J	1.0	0.16	ppb v/v	2		TO-15	Total/NA
Ethylbenzene	0.23	J	0.40	0.066	ppb v/v	2		TO-15	Total/NA
m,p-Xylene	0.86	J	1.0	0.14	ppb v/v	2		TO-15	Total/NA
Methyl Ethyl Ketone	0.88	J	1.0	0.10	ppb v/v	2		TO-15	Total/NA
n-Heptane	1.0		0.40	0.080	ppb v/v	2		TO-15	Total/NA
n-Hexane	2.3		0.40	0.11	ppb v/v	2		TO-15	Total/NA
Tetrachloroethene	0.41		0.40	0.046	ppb v/v	2		TO-15	Total/NA
Toluene	2.3		0.40	0.19	ppb v/v	2		TO-15	Total/NA
trans-1,2-Dichloroethene	0.55		0.40	0.086	ppb v/v	2		TO-15	Total/NA
Trichloroethene	72		0.40	0.078	ppb v/v	2		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Client Sample ID: SV-4 (Continued)

## Lab Sample ID: 200-33696-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	0.53		0.40	0.076	ppb v/v	2		TO-15	Total/NA
Xylene (total)	1.1	J	1.4	0.074	ppb v/v	2		TO-15	Total/NA
Xylene, o-	0.28	J	0.40	0.074	ppb v/v	2		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	13		2.2	0.50	ug/m3	2		TO-15	Total/NA
1,1-Dichloroethane	0.90	J	1.6	0.20	ug/m3	2		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.79	J	2.0	0.42	ug/m3	2		TO-15	Total/NA
1,2-Dichloroethene, Total	20		3.2	0.28	ug/m3	2		TO-15	Total/NA
2,2,4-Trimethylpentane	2.1		1.9	0.36	ug/m3	2		TO-15	Total/NA
Acetone	12	J	24	4.1	ug/m3	2		TO-15	Total/NA
Benzene	3.2		1.3	0.27	ug/m3	2		TO-15	Total/NA
Bromodichloromethane	0.66	J	2.7	0.40	ug/m3	2		TO-15	Total/NA
Carbon disulfide	1.9	J	3.1	0.27	ug/m3	2		TO-15	Total/NA
Chloroform	17		2.0	0.80	ug/m3	2		TO-15	Total/NA
cis-1,2-Dichloroethene	18		1.6	0.28	ug/m3	2		TO-15	Total/NA
Cyclohexane	3.4		1.4	0.27	ug/m3	2		TO-15	Total/NA
Dichlorodifluoromethane	2.7	J	4.9	0.79	ug/m3	2		TO-15	Total/NA
Ethylbenzene	1.0	J	1.7	0.29	ug/m3	2		TO-15	Total/NA
m,p-Xylene	3.8	J	4.3	0.62	ug/m3	2		TO-15	Total/NA
Methyl Ethyl Ketone	2.6	J	2.9	0.31	ug/m3	2		TO-15	Total/NA
n-Heptane	4.2		1.6	0.33	ug/m3	2		TO-15	Total/NA
n-Hexane	8.0		1.4	0.38	ug/m3	2		TO-15	Total/NA
Tetrachloroethene	2.8		2.7	0.31	ug/m3	2		TO-15	Total/NA
Toluene	8.8		1.5	0.70	ug/m3	2		TO-15	Total/NA
trans-1,2-Dichloroethene	2.2		1.6	0.34	ug/m3	2		TO-15	Total/NA
Trichloroethene	390		2.1	0.42	ug/m3	2		TO-15	Total/NA
Trichlorofluoromethane	3.0		2.2	0.43	ug/m3	2		TO-15	Total/NA
Xylene (total)	5.0	J	6.1	0.32	ug/m3	2		TO-15	Total/NA
Xylene, o-	1.2	J	1.7	0.32	ug/m3	2		TO-15	Total/NA

## Client Sample ID: SV-5

## Lab Sample ID: 200-33696-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.072	J	0.20	0.046	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.051	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.18	J	0.40	0.035	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.15	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
Acetone	5.2		5.0	0.86	ppb v/v	1		TO-15	Total/NA
Benzene	0.32		0.20	0.042	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.043	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.18	J	0.20	0.035	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.22		0.20	0.039	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.20	J	0.50	0.080	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.070	J	0.20	0.033	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.0	J	5.0	0.98	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.25	J	0.50	0.071	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	1.0		0.50	0.052	ppb v/v	1		TO-15	Total/NA
methyl isobutyl ketone	0.12	J	0.50	0.050	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.23	J	0.50	0.18	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.30		0.20	0.040	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Client Sample ID: SV-5 (Continued)

## Lab Sample ID: 200-33696-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Hexane	0.64		0.20	0.054	ppb v/v	1		TO-15	Total/NA
Styrene	0.066	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.13	J	0.20	0.023	ppb v/v	1		TO-15	Total/NA
Toluene	1.2		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Trichloroethene	1.7		0.20	0.039	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.13	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Xylene (total)	0.33	J	0.70	0.037	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.079	J	0.20	0.037	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.40	J	1.1	0.25	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.25	J	0.98	0.21	ug/m3	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.71	J	1.6	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.70	J	0.93	0.18	ug/m3	1		TO-15	Total/NA
Acetone	12		12	2.0	ug/m3	1		TO-15	Total/NA
Benzene	1.0		0.64	0.13	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.27	J	1.3	0.20	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.71	J	0.79	0.14	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.75		0.69	0.13	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	0.98	J	2.5	0.40	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.30	J	0.87	0.14	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.5	J	12	2.4	ug/m3	1		TO-15	Total/NA
m,p-Xylene	1.1	J	2.2	0.31	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	3.0		1.5	0.15	ug/m3	1		TO-15	Total/NA
methyl isobutyl ketone	0.48	J	2.0	0.20	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.79	J	1.7	0.63	ug/m3	1		TO-15	Total/NA
n-Heptane	1.2		0.82	0.16	ug/m3	1		TO-15	Total/NA
n-Hexane	2.2		0.70	0.19	ug/m3	1		TO-15	Total/NA
Styrene	0.28	J	0.85	0.18	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.89	J	1.4	0.16	ug/m3	1		TO-15	Total/NA
Toluene	4.5		0.75	0.35	ug/m3	1		TO-15	Total/NA
Trichloroethene	9.4		1.1	0.21	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	0.75	J	1.1	0.21	ug/m3	1		TO-15	Total/NA
Xylene (total)	1.4	J	3.0	0.16	ug/m3	1		TO-15	Total/NA
Xylene, o-	0.34	J	0.87	0.16	ug/m3	1		TO-15	Total/NA

## Client Sample ID: SV-6

## Lab Sample ID: 200-33696-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.0		0.91	0.21	ppb v/v	4.55		TO-15	Total/NA
1,2-Dichloroethene, Total	78		1.8	0.16	ppb v/v	4.55		TO-15	Total/NA
2,2,4-Trimethylpentane	0.32	J	0.91	0.18	ppb v/v	4.55		TO-15	Total/NA
Acetone	6.1	J	23	3.9	ppb v/v	4.55		TO-15	Total/NA
Benzene	0.73	J	0.91	0.19	ppb v/v	4.55		TO-15	Total/NA
Chloroform	0.48	J	0.91	0.37	ppb v/v	4.55		TO-15	Total/NA
cis-1,2-Dichloroethene	55		0.91	0.16	ppb v/v	4.55		TO-15	Total/NA
Cyclohexane	0.48	J	0.91	0.18	ppb v/v	4.55		TO-15	Total/NA
Dichlorodifluoromethane	6.1		2.3	0.36	ppb v/v	4.55		TO-15	Total/NA
m,p-Xylene	0.51	J	2.3	0.32	ppb v/v	4.55		TO-15	Total/NA
Methyl Ethyl Ketone	1.3	J	2.3	0.24	ppb v/v	4.55		TO-15	Total/NA
n-Heptane	0.49	J	0.91	0.18	ppb v/v	4.55		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Client Sample ID: SV-6 (Continued)

## Lab Sample ID: 200-33696-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Hexane	1.3		0.91	0.25	ppb v/v	4.55		TO-15	Total/NA
Tetrachloroethene	0.32	J	0.91	0.10	ppb v/v	4.55		TO-15	Total/NA
Toluene	1.2		0.91	0.42	ppb v/v	4.55		TO-15	Total/NA
trans-1,2-Dichloroethene	23		0.91	0.20	ppb v/v	4.55		TO-15	Total/NA
Trichloroethene	110		0.91	0.18	ppb v/v	4.55		TO-15	Total/NA
Trichlorofluoromethane	0.25	J	0.91	0.17	ppb v/v	4.55		TO-15	Total/NA
Vinyl chloride	0.20	J	0.91	0.15	ppb v/v	4.55		TO-15	Total/NA
Xylene (total)	0.69	J	3.2	0.17	ppb v/v	4.55		TO-15	Total/NA
Xylene, o-	0.18	J	0.91	0.17	ppb v/v	4.55		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.7		5.0	1.1	ug/m3	4.55		TO-15	Total/NA
1,2-Dichloroethene, Total	310		7.2	0.63	ug/m3	4.55		TO-15	Total/NA
2,2,4-Trimethylpentane	1.5	J	4.3	0.83	ug/m3	4.55		TO-15	Total/NA
Acetone	14	J	54	9.3	ug/m3	4.55		TO-15	Total/NA
Benzene	2.3	J	2.9	0.61	ug/m3	4.55		TO-15	Total/NA
Chloroform	2.4	J	4.4	1.8	ug/m3	4.55		TO-15	Total/NA
cis-1,2-Dichloroethene	220		3.6	0.63	ug/m3	4.55		TO-15	Total/NA
Cyclohexane	1.7	J	3.1	0.61	ug/m3	4.55		TO-15	Total/NA
Dichlorodifluoromethane	30		11	1.8	ug/m3	4.55		TO-15	Total/NA
m,p-Xylene	2.2	J	9.9	1.4	ug/m3	4.55		TO-15	Total/NA
Methyl Ethyl Ketone	3.8	J	6.7	0.70	ug/m3	4.55		TO-15	Total/NA
n-Heptane	2.0	J	3.7	0.75	ug/m3	4.55		TO-15	Total/NA
n-Hexane	4.5		3.2	0.87	ug/m3	4.55		TO-15	Total/NA
Tetrachloroethene	2.2	J	6.2	0.71	ug/m3	4.55		TO-15	Total/NA
Toluene	4.6		3.4	1.6	ug/m3	4.55		TO-15	Total/NA
trans-1,2-Dichloroethene	90		3.6	0.78	ug/m3	4.55		TO-15	Total/NA
Trichloroethene	610		4.9	0.95	ug/m3	4.55		TO-15	Total/NA
Trichlorofluoromethane	1.4	J	5.1	0.97	ug/m3	4.55		TO-15	Total/NA
Vinyl chloride	0.51	J	2.3	0.37	ug/m3	4.55		TO-15	Total/NA
Xylene (total)	3.0	J	14	0.73	ug/m3	4.55		TO-15	Total/NA
Xylene, o-	0.77	J	4.0	0.73	ug/m3	4.55		TO-15	Total/NA

## Client Sample ID: SV-7

## Lab Sample ID: 200-33696-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.074	J	0.30	0.065	ppb v/v	1.5		TO-15	Total/NA
1,4-Dioxane	14		7.5	0.84	ppb v/v	1.5		TO-15	Total/NA
2,2,4-Trimethylpentane	0.19	J	0.30	0.059	ppb v/v	1.5		TO-15	Total/NA
Acetone	58		7.5	1.3	ppb v/v	1.5		TO-15	Total/NA
Benzene	2.1		0.30	0.063	ppb v/v	1.5		TO-15	Total/NA
Carbon disulfide	0.65	J	0.75	0.065	ppb v/v	1.5		TO-15	Total/NA
Carbon tetrachloride	0.075	J	0.30	0.048	ppb v/v	1.5		TO-15	Total/NA
Chloroethane	0.21	J	0.75	0.13	ppb v/v	1.5		TO-15	Total/NA
Cyclohexane	28		0.30	0.059	ppb v/v	1.5		TO-15	Total/NA
Dichlorodifluoromethane	0.39	J	0.75	0.12	ppb v/v	1.5		TO-15	Total/NA
Ethylbenzene	0.10	J	0.30	0.050	ppb v/v	1.5		TO-15	Total/NA
Isopropyl alcohol	1.6	J	7.5	1.5	ppb v/v	1.5		TO-15	Total/NA
m,p-Xylene	0.30	J	0.75	0.11	ppb v/v	1.5		TO-15	Total/NA
Methyl Ethyl Ketone	3.8		0.75	0.078	ppb v/v	1.5		TO-15	Total/NA
methyl isobutyl ketone	0.56	J	0.75	0.075	ppb v/v	1.5		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Client Sample ID: SV-7 (Continued)

## Lab Sample ID: 200-33696-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.36	J	0.75	0.27	ppb v/v	1.5		TO-15	Total/NA
n-Heptane	10		0.30	0.060	ppb v/v	1.5		TO-15	Total/NA
n-Hexane	29		0.30	0.081	ppb v/v	1.5		TO-15	Total/NA
Tetrachloroethene	0.20	J	0.30	0.035	ppb v/v	1.5		TO-15	Total/NA
Toluene	2.4		0.30	0.14	ppb v/v	1.5		TO-15	Total/NA
Trichloroethene	1.1		0.30	0.059	ppb v/v	1.5		TO-15	Total/NA
Trichlorofluoromethane	0.25	J	0.30	0.057	ppb v/v	1.5		TO-15	Total/NA
Xylene (total)	0.41	J	1.1	0.056	ppb v/v	1.5		TO-15	Total/NA
Xylene, o-	0.11	J	0.30	0.056	ppb v/v	1.5		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.36	J	1.5	0.32	ug/m3	1.5		TO-15	Total/NA
1,4-Dioxane	49		27	3.0	ug/m3	1.5		TO-15	Total/NA
2,2,4-Trimethylpentane	0.88	J	1.4	0.27	ug/m3	1.5		TO-15	Total/NA
Acetone	140		18	3.1	ug/m3	1.5		TO-15	Total/NA
Benzene	6.8		0.96	0.20	ug/m3	1.5		TO-15	Total/NA
Carbon disulfide	2.0	J	2.3	0.20	ug/m3	1.5		TO-15	Total/NA
Carbon tetrachloride	0.47	J	1.9	0.30	ug/m3	1.5		TO-15	Total/NA
Chloroethane	0.55	J	2.0	0.34	ug/m3	1.5		TO-15	Total/NA
Cyclohexane	95		1.0	0.20	ug/m3	1.5		TO-15	Total/NA
Dichlorodifluoromethane	1.9	J	3.7	0.59	ug/m3	1.5		TO-15	Total/NA
Ethylbenzene	0.45	J	1.3	0.21	ug/m3	1.5		TO-15	Total/NA
Isopropyl alcohol	4.1	J	18	3.6	ug/m3	1.5		TO-15	Total/NA
m,p-Xylene	1.3	J	3.3	0.46	ug/m3	1.5		TO-15	Total/NA
Methyl Ethyl Ketone	11		2.2	0.23	ug/m3	1.5		TO-15	Total/NA
methyl isobutyl ketone	2.3	J	3.1	0.31	ug/m3	1.5		TO-15	Total/NA
Methylene Chloride	1.3	J	2.6	0.94	ug/m3	1.5		TO-15	Total/NA
n-Heptane	42		1.2	0.25	ug/m3	1.5		TO-15	Total/NA
n-Hexane	100		1.1	0.29	ug/m3	1.5		TO-15	Total/NA
Tetrachloroethene	1.4	J	2.0	0.23	ug/m3	1.5		TO-15	Total/NA
Toluene	9.0		1.1	0.53	ug/m3	1.5		TO-15	Total/NA
Trichloroethene	5.9		1.6	0.31	ug/m3	1.5		TO-15	Total/NA
Trichlorofluoromethane	1.4	J	1.7	0.32	ug/m3	1.5		TO-15	Total/NA
Xylene (total)	1.8	J	4.6	0.24	ug/m3	1.5		TO-15	Total/NA
Xylene, o-	0.46	J	1.3	0.24	ug/m3	1.5		TO-15	Total/NA

## Client Sample ID: IA-1

## Lab Sample ID: 200-33696-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.047	J	0.20	0.046	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.052	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.056	J	0.40	0.035	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.11	J	0.20	0.089	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.21		0.20	0.057	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.071	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
Acetone	1.1	J	5.0	0.86	ppb v/v	1		TO-15	Total/NA
Benzene	0.45		0.20	0.042	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.080	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.45	J	0.50	0.093	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.056	J	0.20	0.035	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.051	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Client Sample ID: IA-1 (Continued)

## Lab Sample ID: 200-33696-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.55		0.50	0.080	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.052	J	0.20	0.033	ppb v/v	1		TO-15	Total/NA
Freon TF	0.085	J	0.20	0.075	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.22	J	0.50	0.071	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.24	J	0.50	0.18	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.046	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.16	J	0.20	0.054	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.024	J	0.20	0.023	ppb v/v	1		TO-15	Total/NA
Toluene	0.59		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.27		0.20	0.039	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.28		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Xylene (total)	0.29	J	0.70	0.037	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.074	J	0.20	0.037	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.26	J	1.1	0.25	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.25	J	0.98	0.21	ug/m3	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.22	J	1.6	0.14	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.25	J	0.44	0.20	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	1.3		1.2	0.34	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.33	J	0.93	0.18	ug/m3	1		TO-15	Total/NA
Acetone	2.5	J	12	2.0	ug/m3	1		TO-15	Total/NA
Benzene	1.4		0.64	0.13	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.50	J	1.3	0.20	ug/m3	1		TO-15	Total/NA
Chloromethane	0.93	J	1.0	0.19	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.22	J	0.79	0.14	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.17	J	0.69	0.13	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.7		2.5	0.40	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.22	J	0.87	0.14	ug/m3	1		TO-15	Total/NA
Freon TF	0.65	J	1.5	0.57	ug/m3	1		TO-15	Total/NA
m,p-Xylene	0.95	J	2.2	0.31	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.83	J	1.7	0.63	ug/m3	1		TO-15	Total/NA
n-Heptane	0.19	J	0.82	0.16	ug/m3	1		TO-15	Total/NA
n-Hexane	0.57	J	0.70	0.19	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.16	J	1.4	0.16	ug/m3	1		TO-15	Total/NA
Toluene	2.2		0.75	0.35	ug/m3	1		TO-15	Total/NA
Trichloroethene	1.4		1.1	0.21	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.21	ug/m3	1		TO-15	Total/NA
Xylene (total)	1.3	J	3.0	0.16	ug/m3	1		TO-15	Total/NA
Xylene, o-	0.32	J	0.87	0.16	ug/m3	1		TO-15	Total/NA

## Client Sample ID: IA-2

## Lab Sample ID: 200-33696-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.065	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA
1,2-Dichloroethene, Total	1.6		0.40	0.035	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.17	J	0.20	0.089	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.075	J	0.20	0.057	ppb v/v	1		TO-15	Total/NA
1,4-Dioxane	31		5.0	0.56	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.078	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
Acetone	6.9		5.0	0.86	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: IA-2 (Continued)**

**Lab Sample ID: 200-33696-9**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.71		0.20	0.042	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.30	J	0.50	0.043	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.073	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Chloroethane	0.26	J	0.50	0.085	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.70		0.50	0.093	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	1.5		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.50		0.50	0.080	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.070	J	0.20	0.033	ppb v/v	1		TO-15	Total/NA
Freon TF	0.076	J	0.20	0.075	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.27	J	0.50	0.071	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.49	J	0.50	0.052	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.20	J	0.50	0.18	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.24		0.20	0.054	ppb v/v	1		TO-15	Total/NA
Styrene	0.047	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.035	J	0.20	0.023	ppb v/v	1		TO-15	Total/NA
Toluene	0.65		0.20	0.093	ppb v/v	1		TO-15	Total/NA
trans-1,2-Dichloroethene	0.10	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA
Trichloroethene	6.4		0.20	0.039	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.23		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Vinyl chloride	0.035	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Xylene (total)	0.36	J	0.70	0.037	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.085	J	0.20	0.037	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.32	J	0.98	0.21	ug/m3	1		TO-15	Total/NA
1,2-Dichloroethene, Total	6.3		1.6	0.14	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.38	J	0.44	0.20	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.45	J	1.2	0.34	ug/m3	1		TO-15	Total/NA
1,4-Dioxane	110		18	2.0	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.37	J	0.93	0.18	ug/m3	1		TO-15	Total/NA
Acetone	16		12	2.0	ug/m3	1		TO-15	Total/NA
Benzene	2.3		0.64	0.13	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.93	J	1.6	0.13	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.46	J	1.3	0.20	ug/m3	1		TO-15	Total/NA
Chloroethane	0.68	J	1.3	0.22	ug/m3	1		TO-15	Total/NA
Chloromethane	1.4		1.0	0.19	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	5.9		0.79	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		2.5	0.40	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.30	J	0.87	0.14	ug/m3	1		TO-15	Total/NA
Freon TF	0.58	J	1.5	0.57	ug/m3	1		TO-15	Total/NA
m,p-Xylene	1.2	J	2.2	0.31	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	1.4	J	1.5	0.15	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.69	J	1.7	0.63	ug/m3	1		TO-15	Total/NA
n-Hexane	0.85		0.70	0.19	ug/m3	1		TO-15	Total/NA
Styrene	0.20	J	0.85	0.18	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.24	J	1.4	0.16	ug/m3	1		TO-15	Total/NA
Toluene	2.5		0.75	0.35	ug/m3	1		TO-15	Total/NA
trans-1,2-Dichloroethene	0.42	J	0.79	0.17	ug/m3	1		TO-15	Total/NA
Trichloroethene	35		1.1	0.21	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.3		1.1	0.21	ug/m3	1		TO-15	Total/NA
Vinyl chloride	0.089	J	0.51	0.082	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington



# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Client Sample ID: IA-2 (Continued)

## Lab Sample ID: 200-33696-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylene (total)	1.5	J	3.0	0.16	ug/m3	1		TO-15	Total/NA
Xylene, o-	0.37	J	0.87	0.16	ug/m3	1		TO-15	Total/NA

## Client Sample ID: OA-1

## Lab Sample ID: 200-33696-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.064	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.096	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
Acetone	2.5	J	5.0	0.86	ppb v/v	1		TO-15	Total/NA
Benzene	0.22		0.20	0.042	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.076	J	0.50	0.043	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.066	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.55		0.50	0.093	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.48	J	0.50	0.080	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.070	J	0.20	0.033	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.4	J	5.0	0.98	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.26	J	0.50	0.071	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.20	J	0.50	0.052	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.24	J	0.50	0.18	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.060	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.17	J	0.20	0.054	ppb v/v	1		TO-15	Total/NA
Styrene	0.048	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA
Toluene	0.57		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.043	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Xylene (total)	0.35	J	0.70	0.037	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.092	J	0.20	0.037	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.31	J	0.98	0.21	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.45	J	0.93	0.18	ug/m3	1		TO-15	Total/NA
Acetone	6.0	J	12	2.0	ug/m3	1		TO-15	Total/NA
Benzene	0.69		0.64	0.13	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.24	J	1.6	0.13	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.41	J	1.3	0.20	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.19	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.4	J	2.5	0.40	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.30	J	0.87	0.14	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.4	J	12	2.4	ug/m3	1		TO-15	Total/NA
m,p-Xylene	1.1	J	2.2	0.31	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.60	J	1.5	0.15	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.83	J	1.7	0.63	ug/m3	1		TO-15	Total/NA
n-Heptane	0.25	J	0.82	0.16	ug/m3	1		TO-15	Total/NA
n-Hexane	0.62	J	0.70	0.19	ug/m3	1		TO-15	Total/NA
Styrene	0.20	J	0.85	0.18	ug/m3	1		TO-15	Total/NA
Toluene	2.1		0.75	0.35	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.23	J	1.1	0.21	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.21	ug/m3	1		TO-15	Total/NA
Xylene (total)	1.5	J	3.0	0.16	ug/m3	1		TO-15	Total/NA
Xylene, o-	0.40	J	0.87	0.16	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-1**

**Lab Sample ID: 200-33696-1**

**Date Collected: 05/20/16 10:24**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.20	0.046	ppb v/v			05/27/16 15:41	1
1,1,1,2-Tetrachloroethane	0.20	U	0.20	0.044	ppb v/v			05/27/16 15:41	1
1,1,2-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			05/27/16 15:41	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			05/27/16 15:41	1
1,1-Dichloroethene	0.20	U	0.20	0.036	ppb v/v			05/27/16 15:41	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.068	ppb v/v			05/27/16 15:41	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.061</b>	<b>J</b>	0.20	0.043	ppb v/v			05/27/16 15:41	1
1,2-Dibromoethane	0.20	U	0.20	0.039	ppb v/v			05/27/16 15:41	1
1,2-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/27/16 15:41	1
1,2-Dichloroethane	0.20	U	0.20	0.041	ppb v/v			05/27/16 15:41	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.035	ppb v/v			05/27/16 15:41	1
1,2-Dichloropropane	0.20	U	0.20	0.027	ppb v/v			05/27/16 15:41	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.038	ppb v/v			05/27/16 15:41	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.039	ppb v/v			05/27/16 15:41	1
1,3-Butadiene	0.20	U	0.20	0.089	ppb v/v			05/27/16 15:41	1
1,3-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/27/16 15:41	1
1,4-Dichlorobenzene	0.20	U	0.20	0.057	ppb v/v			05/27/16 15:41	1
1,4-Dioxane	5.0	U	5.0	0.56	ppb v/v			05/27/16 15:41	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.039	ppb v/v			05/27/16 15:41	1
2-Chlorotoluene	0.20	U	0.20	0.033	ppb v/v			05/27/16 15:41	1
3-Chloropropene	0.50	U	0.50	0.068	ppb v/v			05/27/16 15:41	1
4-Ethyltoluene	0.20	U	0.20	0.044	ppb v/v			05/27/16 15:41	1
<b>Acetone</b>	<b>2.6</b>	<b>J</b>	5.0	0.86	ppb v/v			05/27/16 15:41	1
<b>Benzene</b>	<b>0.20</b>		0.20	0.042	ppb v/v			05/27/16 15:41	1
<b>Bromodichloromethane</b>	<b>0.048</b>	<b>J</b>	0.20	0.030	ppb v/v			05/27/16 15:41	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.044	ppb v/v			05/27/16 15:41	1
Bromoform	0.20	U	0.20	0.056	ppb v/v			05/27/16 15:41	1
Bromomethane	0.20	U	0.20	0.056	ppb v/v			05/27/16 15:41	1
<b>Carbon disulfide</b>	<b>0.15</b>	<b>J</b>	0.50	0.043	ppb v/v			05/27/16 15:41	1
<b>Carbon tetrachloride</b>	<b>0.041</b>	<b>J</b>	0.20	0.032	ppb v/v			05/27/16 15:41	1
Chlorobenzene	0.20	U	0.20	0.049	ppb v/v			05/27/16 15:41	1
Chloroethane	0.50	U	0.50	0.085	ppb v/v			05/27/16 15:41	1
<b>Chloroform</b>	<b>2.4</b>		0.20	0.082	ppb v/v			05/27/16 15:41	1
<b>Chloromethane</b>	<b>0.098</b>	<b>J</b>	0.50	0.093	ppb v/v			05/27/16 15:41	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			05/27/16 15:41	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.023	ppb v/v			05/27/16 15:41	1
<b>Cyclohexane</b>	<b>0.10</b>	<b>J</b>	0.20	0.039	ppb v/v			05/27/16 15:41	1
Dibromochloromethane	0.20	U	0.20	0.044	ppb v/v			05/27/16 15:41	1
<b>Dichlorodifluoromethane</b>	<b>0.50</b>		0.50	0.080	ppb v/v			05/27/16 15:41	1
<b>Ethylbenzene</b>	<b>0.049</b>	<b>J</b>	0.20	0.033	ppb v/v			05/27/16 15:41	1
<b>Freon TF</b>	<b>0.076</b>	<b>J</b>	0.20	0.075	ppb v/v			05/27/16 15:41	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			05/27/16 15:41	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			05/27/16 15:41	1
<b>m,p-Xylene</b>	<b>0.17</b>	<b>J</b>	0.50	0.071	ppb v/v			05/27/16 15:41	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.057	ppb v/v			05/27/16 15:41	1
<b>Methyl Ethyl Ketone</b>	<b>0.51</b>		0.50	0.052	ppb v/v			05/27/16 15:41	1
methyl isobutyl ketone	0.50	U	0.50	0.050	ppb v/v			05/27/16 15:41	1
Methyl tert-butyl ether	0.20	U	0.20	0.089	ppb v/v			05/27/16 15:41	1

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-1**

**Lab Sample ID: 200-33696-1**

Date Collected: 05/20/16 10:24

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.25	J	0.50	0.18	ppb v/v			05/27/16 15:41	1
n-Heptane	0.096	J	0.20	0.040	ppb v/v			05/27/16 15:41	1
n-Hexane	0.24		0.20	0.054	ppb v/v			05/27/16 15:41	1
Styrene	0.20	U	0.20	0.043	ppb v/v			05/27/16 15:41	1
tert-Butyl alcohol	5.0	U	5.0	0.85	ppb v/v			05/27/16 15:41	1
Tetrachloroethene	0.22		0.20	0.023	ppb v/v			05/27/16 15:41	1
Tetrahydrofuran	5.0	U	5.0	1.4	ppb v/v			05/27/16 15:41	1
Toluene	0.64		0.20	0.093	ppb v/v			05/27/16 15:41	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.043	ppb v/v			05/27/16 15:41	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.034	ppb v/v			05/27/16 15:41	1
Trichloroethene	0.28		0.20	0.039	ppb v/v			05/27/16 15:41	1
Trichlorofluoromethane	0.29		0.20	0.038	ppb v/v			05/27/16 15:41	1
Vinyl chloride	0.20	U	0.20	0.032	ppb v/v			05/27/16 15:41	1
Xylene (total)	0.24	J	0.70	0.037	ppb v/v			05/27/16 15:41	1
Xylene, o-	0.065	J	0.20	0.037	ppb v/v			05/27/16 15:41	1
Naphthalene	0.11	J B	0.50	0.057	ppb v/v			05/27/16 15:41	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/m3			05/27/16 15:41	1
1,1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			05/27/16 15:41	1
1,1,2-Trichloroethane	1.1	U	1.1	0.21	ug/m3			05/27/16 15:41	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			05/27/16 15:41	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/27/16 15:41	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.50	ug/m3			05/27/16 15:41	1
1,2,4-Trimethylbenzene	0.30	J	0.98	0.21	ug/m3			05/27/16 15:41	1
1,2-Dibromoethane	1.5	U	1.5	0.30	ug/m3			05/27/16 15:41	1
1,2-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/27/16 15:41	1
1,2-Dichloroethane	0.81	U	0.81	0.17	ug/m3			05/27/16 15:41	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.14	ug/m3			05/27/16 15:41	1
1,2-Dichloropropane	0.92	U	0.92	0.12	ug/m3			05/27/16 15:41	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.27	ug/m3			05/27/16 15:41	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.19	ug/m3			05/27/16 15:41	1
1,3-Butadiene	0.44	U	0.44	0.20	ug/m3			05/27/16 15:41	1
1,3-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/27/16 15:41	1
1,4-Dichlorobenzene	1.2	U	1.2	0.34	ug/m3			05/27/16 15:41	1
1,4-Dioxane	18	U	18	2.0	ug/m3			05/27/16 15:41	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.18	ug/m3			05/27/16 15:41	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/m3			05/27/16 15:41	1
3-Chloropropene	1.6	U	1.6	0.21	ug/m3			05/27/16 15:41	1
4-Ethyltoluene	0.98	U	0.98	0.22	ug/m3			05/27/16 15:41	1
Acetone	6.2	J	12	2.0	ug/m3			05/27/16 15:41	1
Benzene	0.63		0.64	0.13	ug/m3			05/27/16 15:41	1
Bromodichloromethane	0.32	J	1.3	0.20	ug/m3			05/27/16 15:41	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.19	ug/m3			05/27/16 15:41	1
Bromoform	2.1	U	2.1	0.58	ug/m3			05/27/16 15:41	1
Bromomethane	0.78	U	0.78	0.22	ug/m3			05/27/16 15:41	1
Carbon disulfide	0.48	J	1.6	0.13	ug/m3			05/27/16 15:41	1
Carbon tetrachloride	0.26	J	1.3	0.20	ug/m3			05/27/16 15:41	1
Chlorobenzene	0.92	U	0.92	0.23	ug/m3			05/27/16 15:41	1

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-1**

**Lab Sample ID: 200-33696-1**

Date Collected: 05/20/16 10:24

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.3	U	1.3	0.22	ug/m3			05/27/16 15:41	1
<b>Chloroform</b>	<b>12</b>		0.98	0.40	ug/m3			05/27/16 15:41	1
<b>Chloromethane</b>	<b>0.20</b>	<b>J</b>	1.0	0.19	ug/m3			05/27/16 15:41	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/27/16 15:41	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			05/27/16 15:41	1
<b>Cyclohexane</b>	<b>0.35</b>	<b>J</b>	0.69	0.13	ug/m3			05/27/16 15:41	1
Dibromochloromethane	1.7	U	1.7	0.37	ug/m3			05/27/16 15:41	1
<b>Dichlorodifluoromethane</b>	<b>2.5</b>		2.5	0.40	ug/m3			05/27/16 15:41	1
<b>Ethylbenzene</b>	<b>0.21</b>	<b>J</b>	0.87	0.14	ug/m3			05/27/16 15:41	1
<b>Freon TF</b>	<b>0.58</b>	<b>J</b>	1.5	0.57	ug/m3			05/27/16 15:41	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			05/27/16 15:41	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			05/27/16 15:41	1
<b>m,p-Xylene</b>	<b>0.74</b>	<b>J</b>	2.2	0.31	ug/m3			05/27/16 15:41	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.23	ug/m3			05/27/16 15:41	1
<b>Methyl Ethyl Ketone</b>	<b>1.5</b>		1.5	0.15	ug/m3			05/27/16 15:41	1
methyl isobutyl ketone	2.0	U	2.0	0.20	ug/m3			05/27/16 15:41	1
Methyl tert-butyl ether	0.72	U	0.72	0.32	ug/m3			05/27/16 15:41	1
<b>Methylene Chloride</b>	<b>0.88</b>	<b>J</b>	1.7	0.63	ug/m3			05/27/16 15:41	1
<b>n-Heptane</b>	<b>0.39</b>	<b>J</b>	0.82	0.16	ug/m3			05/27/16 15:41	1
<b>n-Hexane</b>	<b>0.84</b>		0.70	0.19	ug/m3			05/27/16 15:41	1
Styrene	0.85	U	0.85	0.18	ug/m3			05/27/16 15:41	1
tert-Butyl alcohol	15	U	15	2.6	ug/m3			05/27/16 15:41	1
<b>Tetrachloroethene</b>	<b>1.5</b>		1.4	0.16	ug/m3			05/27/16 15:41	1
Tetrahydrofuran	15	U	15	4.1	ug/m3			05/27/16 15:41	1
<b>Toluene</b>	<b>2.4</b>		0.75	0.35	ug/m3			05/27/16 15:41	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.17	ug/m3			05/27/16 15:41	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.15	ug/m3			05/27/16 15:41	1
<b>Trichloroethene</b>	<b>1.5</b>		1.1	0.21	ug/m3			05/27/16 15:41	1
<b>Trichlorofluoromethane</b>	<b>1.6</b>		1.1	0.21	ug/m3			05/27/16 15:41	1
Vinyl chloride	0.51	U	0.51	0.082	ug/m3			05/27/16 15:41	1
<b>Xylene (total)</b>	<b>1.0</b>	<b>J</b>	3.0	0.16	ug/m3			05/27/16 15:41	1
<b>Xylene, o-</b>	<b>0.28</b>	<b>J</b>	0.87	0.16	ug/m3			05/27/16 15:41	1
<b>Naphthalene</b>	<b>0.56</b>	<b>J B</b>	2.6	0.30	ug/m3			05/27/16 15:41	1

**Client Sample ID: SV-2**

**Lab Sample ID: 200-33696-2**

Date Collected: 05/20/16 10:45

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.30	U	0.30	0.069	ppb v/v			05/27/16 16:24	1.5
1,1,2,2-Tetrachloroethane	0.30	U	0.30	0.066	ppb v/v			05/27/16 16:24	1.5
1,1,2-Trichloroethane	0.30	U	0.30	0.059	ppb v/v			05/27/16 16:24	1.5
1,1-Dichloroethane	0.30	U	0.30	0.038	ppb v/v			05/27/16 16:24	1.5
1,1-Dichloroethene	0.30	U	0.30	0.054	ppb v/v			05/27/16 16:24	1.5
1,2,4-Trichlorobenzene	0.75	U	0.75	0.10	ppb v/v			05/27/16 16:24	1.5
<b>1,2,4-Trimethylbenzene</b>	<b>0.11</b>	<b>J</b>	0.30	0.065	ppb v/v			05/27/16 16:24	1.5
1,2-Dibromoethane	0.30	U	0.30	0.059	ppb v/v			05/27/16 16:24	1.5

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-2**

**Lab Sample ID: 200-33696-2**

**Date Collected: 05/20/16 10:45**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.30	U	0.30	0.083	ppb v/v			05/27/16 16:24	1.5
1,2-Dichloroethane	0.30	U	0.30	0.062	ppb v/v			05/27/16 16:24	1.5
<b>1,2-Dichloroethene, Total</b>	<b>0.13</b>	<b>J</b>	0.60	0.053	ppb v/v			05/27/16 16:24	1.5
1,2-Dichloropropane	0.30	U	0.30	0.041	ppb v/v			05/27/16 16:24	1.5
1,2-Dichlorotetrafluoroethane	0.30	U	0.30	0.057	ppb v/v			05/27/16 16:24	1.5
1,3,5-Trimethylbenzene	0.30	U	0.30	0.059	ppb v/v			05/27/16 16:24	1.5
1,3-Butadiene	0.30	U	0.30	0.13	ppb v/v			05/27/16 16:24	1.5
1,3-Dichlorobenzene	0.30	U	0.30	0.083	ppb v/v			05/27/16 16:24	1.5
1,4-Dichlorobenzene	0.30	U	0.30	0.086	ppb v/v			05/27/16 16:24	1.5
1,4-Dioxane	7.5	U	7.5	0.84	ppb v/v			05/27/16 16:24	1.5
2,2,4-Trimethylpentane	0.30	U	0.30	0.059	ppb v/v			05/27/16 16:24	1.5
2-Chlorotoluene	0.30	U	0.30	0.050	ppb v/v			05/27/16 16:24	1.5
3-Chloropropene	0.75	U	0.75	0.10	ppb v/v			05/27/16 16:24	1.5
4-Ethyltoluene	0.30	U	0.30	0.066	ppb v/v			05/27/16 16:24	1.5
<b>Acetone</b>	<b>17</b>		7.5	1.3	ppb v/v			05/27/16 16:24	1.5
<b>Benzene</b>	<b>0.53</b>		0.30	0.063	ppb v/v			05/27/16 16:24	1.5
<b>Bromodichloromethane</b>	<b>0.28</b>	<b>J</b>	0.30	0.045	ppb v/v			05/27/16 16:24	1.5
Bromoethene(Vinyl Bromide)	0.30	U	0.30	0.066	ppb v/v			05/27/16 16:24	1.5
Bromoform	0.30	U	0.30	0.084	ppb v/v			05/27/16 16:24	1.5
Bromomethane	0.30	U	0.30	0.084	ppb v/v			05/27/16 16:24	1.5
<b>Carbon disulfide</b>	<b>0.28</b>	<b>J</b>	0.75	0.065	ppb v/v			05/27/16 16:24	1.5
<b>Carbon tetrachloride</b>	<b>0.12</b>	<b>J</b>	0.30	0.048	ppb v/v			05/27/16 16:24	1.5
Chlorobenzene	0.30	U	0.30	0.074	ppb v/v			05/27/16 16:24	1.5
Chloroethane	0.75	U	0.75	0.13	ppb v/v			05/27/16 16:24	1.5
<b>Chloroform</b>	<b>19</b>		0.30	0.12	ppb v/v			05/27/16 16:24	1.5
Chloromethane	0.75	U	0.75	0.14	ppb v/v			05/27/16 16:24	1.5
<b>cis-1,2-Dichloroethene</b>	<b>0.13</b>	<b>J</b>	0.30	0.053	ppb v/v			05/27/16 16:24	1.5
cis-1,3-Dichloropropene	0.30	U	0.30	0.035	ppb v/v			05/27/16 16:24	1.5
<b>Cyclohexane</b>	<b>1.1</b>		0.30	0.059	ppb v/v			05/27/16 16:24	1.5
Dibromochloromethane	0.30	U	0.30	0.066	ppb v/v			05/27/16 16:24	1.5
<b>Dichlorodifluoromethane</b>	<b>0.60</b>	<b>J</b>	0.75	0.12	ppb v/v			05/27/16 16:24	1.5
<b>Ethylbenzene</b>	<b>0.089</b>	<b>J</b>	0.30	0.050	ppb v/v			05/27/16 16:24	1.5
<b>Freon TF</b>	<b>0.11</b>	<b>J</b>	0.30	0.11	ppb v/v			05/27/16 16:24	1.5
Hexachlorobutadiene	0.30	U	0.30	0.12	ppb v/v			05/27/16 16:24	1.5
Isopropyl alcohol	7.5	U	7.5	1.5	ppb v/v			05/27/16 16:24	1.5
<b>m,p-Xylene</b>	<b>0.32</b>	<b>J</b>	0.75	0.11	ppb v/v			05/27/16 16:24	1.5
<b>Methyl Butyl Ketone (2-Hexanone)</b>	<b>0.13</b>	<b>J</b>	0.75	0.086	ppb v/v			05/27/16 16:24	1.5
<b>Methyl Ethyl Ketone</b>	<b>1.3</b>		0.75	0.078	ppb v/v			05/27/16 16:24	1.5
<b>methyl isobutyl ketone</b>	<b>0.16</b>	<b>J</b>	0.75	0.075	ppb v/v			05/27/16 16:24	1.5
Methyl tert-butyl ether	0.30	U	0.30	0.13	ppb v/v			05/27/16 16:24	1.5
<b>Methylene Chloride</b>	<b>0.44</b>	<b>J</b>	0.75	0.27	ppb v/v			05/27/16 16:24	1.5
<b>n-Heptane</b>	<b>0.42</b>		0.30	0.060	ppb v/v			05/27/16 16:24	1.5
<b>n-Hexane</b>	<b>0.85</b>		0.30	0.081	ppb v/v			05/27/16 16:24	1.5
Styrene	0.30	U	0.30	0.065	ppb v/v			05/27/16 16:24	1.5
tert-Butyl alcohol	7.5	U	7.5	1.3	ppb v/v			05/27/16 16:24	1.5
<b>Tetrachloroethene</b>	<b>0.35</b>		0.30	0.035	ppb v/v			05/27/16 16:24	1.5
Tetrahydrofuran	7.5	U	7.5	2.1	ppb v/v			05/27/16 16:24	1.5
<b>Toluene</b>	<b>0.95</b>		0.30	0.14	ppb v/v			05/27/16 16:24	1.5

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-2**

**Lab Sample ID: 200-33696-2**

**Date Collected: 05/20/16 10:45**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.30	U	0.30	0.065	ppb v/v			05/27/16 16:24	1.5
trans-1,3-Dichloropropene	0.30	U	0.30	0.051	ppb v/v			05/27/16 16:24	1.5
<b>Trichloroethene</b>	<b>49</b>		0.30	0.059	ppb v/v			05/27/16 16:24	1.5
<b>Trichlorofluoromethane</b>	<b>0.37</b>		0.30	0.057	ppb v/v			05/27/16 16:24	1.5
Vinyl chloride	0.30	U	0.30	0.048	ppb v/v			05/27/16 16:24	1.5
<b>Xylene (total)</b>	<b>0.44</b>	<b>J</b>	1.1	0.056	ppb v/v			05/27/16 16:24	1.5
<b>Xylene, o-</b>	<b>0.12</b>	<b>J</b>	0.30	0.056	ppb v/v			05/27/16 16:24	1.5
<b>Naphthalene</b>	<b>0.10</b>	<b>J</b>	0.75	0.086	ppb v/v			05/27/16 16:24	1.5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.6	U	1.6	0.38	ug/m3			05/27/16 16:24	1.5
1,1,2,2-Tetrachloroethane	2.1	U	2.1	0.45	ug/m3			05/27/16 16:24	1.5
1,1,2-Trichloroethane	1.6	U	1.6	0.32	ug/m3			05/27/16 16:24	1.5
1,1-Dichloroethane	1.2	U	1.2	0.15	ug/m3			05/27/16 16:24	1.5
1,1-Dichloroethene	1.2	U	1.2	0.21	ug/m3			05/27/16 16:24	1.5
1,2,4-Trichlorobenzene	5.6	U	5.6	0.76	ug/m3			05/27/16 16:24	1.5
<b>1,2,4-Trimethylbenzene</b>	<b>0.52</b>	<b>J</b>	1.5	0.32	ug/m3			05/27/16 16:24	1.5
1,2-Dibromoethane	2.3	U	2.3	0.45	ug/m3			05/27/16 16:24	1.5
1,2-Dichlorobenzene	1.8	U	1.8	0.50	ug/m3			05/27/16 16:24	1.5
1,2-Dichloroethane	1.2	U	1.2	0.25	ug/m3			05/27/16 16:24	1.5
<b>1,2-Dichloroethene, Total</b>	<b>0.52</b>	<b>J</b>	2.4	0.21	ug/m3			05/27/16 16:24	1.5
1,2-Dichloropropane	1.4	U	1.4	0.19	ug/m3			05/27/16 16:24	1.5
1,2-Dichlorotetrafluoroethane	2.1	U	2.1	0.40	ug/m3			05/27/16 16:24	1.5
1,3,5-Trimethylbenzene	1.5	U	1.5	0.29	ug/m3			05/27/16 16:24	1.5
1,3-Butadiene	0.66	U	0.66	0.30	ug/m3			05/27/16 16:24	1.5
1,3-Dichlorobenzene	1.8	U	1.8	0.50	ug/m3			05/27/16 16:24	1.5
1,4-Dichlorobenzene	1.8	U	1.8	0.51	ug/m3			05/27/16 16:24	1.5
1,4-Dioxane	27	U	27	3.0	ug/m3			05/27/16 16:24	1.5
2,2,4-Trimethylpentane	1.4	U	1.4	0.27	ug/m3			05/27/16 16:24	1.5
2-Chlorotoluene	1.6	U	1.6	0.26	ug/m3			05/27/16 16:24	1.5
3-Chloropropene	2.3	U	2.3	0.32	ug/m3			05/27/16 16:24	1.5
4-Ethyltoluene	1.5	U	1.5	0.32	ug/m3			05/27/16 16:24	1.5
<b>Acetone</b>	<b>40</b>		18	3.1	ug/m3			05/27/16 16:24	1.5
<b>Benzene</b>	<b>1.7</b>		0.96	0.20	ug/m3			05/27/16 16:24	1.5
<b>Bromodichloromethane</b>	<b>1.9</b>	<b>J</b>	2.0	0.30	ug/m3			05/27/16 16:24	1.5
Bromoethene(Vinyl Bromide)	1.3	U	1.3	0.29	ug/m3			05/27/16 16:24	1.5
Bromoform	3.1	U	3.1	0.87	ug/m3			05/27/16 16:24	1.5
Bromomethane	1.2	U	1.2	0.33	ug/m3			05/27/16 16:24	1.5
<b>Carbon disulfide</b>	<b>0.88</b>	<b>J</b>	2.3	0.20	ug/m3			05/27/16 16:24	1.5
<b>Carbon tetrachloride</b>	<b>0.78</b>	<b>J</b>	1.9	0.30	ug/m3			05/27/16 16:24	1.5
Chlorobenzene	1.4	U	1.4	0.34	ug/m3			05/27/16 16:24	1.5
Chloroethane	2.0	U	2.0	0.34	ug/m3			05/27/16 16:24	1.5
<b>Chloroform</b>	<b>93</b>		1.5	0.60	ug/m3			05/27/16 16:24	1.5
Chloromethane	1.5	U	1.5	0.29	ug/m3			05/27/16 16:24	1.5
<b>cis-1,2-Dichloroethene</b>	<b>0.50</b>	<b>J</b>	1.2	0.21	ug/m3			05/27/16 16:24	1.5
cis-1,3-Dichloropropene	1.4	U	1.4	0.16	ug/m3			05/27/16 16:24	1.5
<b>Cyclohexane</b>	<b>4.0</b>		1.0	0.20	ug/m3			05/27/16 16:24	1.5
Dibromochloromethane	2.6	U	2.6	0.56	ug/m3			05/27/16 16:24	1.5
<b>Dichlorodifluoromethane</b>	<b>3.0</b>	<b>J</b>	3.7	0.59	ug/m3			05/27/16 16:24	1.5

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-2**

**Lab Sample ID: 200-33696-2**

Date Collected: 05/20/16 10:45

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.39	J	1.3	0.21	ug/m3			05/27/16 16:24	1.5
Freon TF	0.87	J	2.3	0.86	ug/m3			05/27/16 16:24	1.5
Hexachlorobutadiene	3.2	U	3.2	1.3	ug/m3			05/27/16 16:24	1.5
Isopropyl alcohol	18	U	18	3.6	ug/m3			05/27/16 16:24	1.5
m,p-Xylene	1.4	J	3.3	0.46	ug/m3			05/27/16 16:24	1.5
Methyl Butyl Ketone (2-Hexanone)	0.53	J	3.1	0.35	ug/m3			05/27/16 16:24	1.5
Methyl Ethyl Ketone	3.8		2.2	0.23	ug/m3			05/27/16 16:24	1.5
methyl isobutyl ketone	0.66	J	3.1	0.31	ug/m3			05/27/16 16:24	1.5
Methyl tert-butyl ether	1.1	U	1.1	0.48	ug/m3			05/27/16 16:24	1.5
Methylene Chloride	1.5	J	2.6	0.94	ug/m3			05/27/16 16:24	1.5
n-Heptane	1.7		1.2	0.25	ug/m3			05/27/16 16:24	1.5
n-Hexane	3.0		1.1	0.29	ug/m3			05/27/16 16:24	1.5
Styrene	1.3	U	1.3	0.27	ug/m3			05/27/16 16:24	1.5
tert-Butyl alcohol	23	U	23	3.9	ug/m3			05/27/16 16:24	1.5
Tetrachloroethene	2.4		2.0	0.23	ug/m3			05/27/16 16:24	1.5
Tetrahydrofuran	22	U	22	6.2	ug/m3			05/27/16 16:24	1.5
Toluene	3.6		1.1	0.53	ug/m3			05/27/16 16:24	1.5
trans-1,2-Dichloroethene	1.2	U	1.2	0.26	ug/m3			05/27/16 16:24	1.5
trans-1,3-Dichloropropene	1.4	U	1.4	0.23	ug/m3			05/27/16 16:24	1.5
Trichloroethene	260		1.6	0.31	ug/m3			05/27/16 16:24	1.5
Trichlorofluoromethane	2.1		1.7	0.32	ug/m3			05/27/16 16:24	1.5
Vinyl chloride	0.77	U	0.77	0.12	ug/m3			05/27/16 16:24	1.5
Xylene (total)	1.9	J	4.6	0.24	ug/m3			05/27/16 16:24	1.5
Xylene, o-	0.53	J	1.3	0.24	ug/m3			05/27/16 16:24	1.5
Naphthalene	0.53	J	3.9	0.45	ug/m3			05/27/16 16:24	1.5

**Client Sample ID: SV-3**

**Lab Sample ID: 200-33696-3**

Date Collected: 05/20/16 11:12

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	160		57	13	ppb v/v			05/27/16 20:39	286
1,1,1,2-Tetrachloroethane	57	U	57	13	ppb v/v			05/27/16 20:39	286
1,1,2-Trichloroethane	57	U	57	11	ppb v/v			05/27/16 20:39	286
1,1-Dichloroethane	72		57	7.2	ppb v/v			05/27/16 20:39	286
1,1-Dichloroethene	57	U	57	10	ppb v/v			05/27/16 20:39	286
1,2,4-Trichlorobenzene	140	U	140	19	ppb v/v			05/27/16 20:39	286
1,2,4-Trimethylbenzene	57	U	57	12	ppb v/v			05/27/16 20:39	286
1,2-Dibromoethane	57	U	57	11	ppb v/v			05/27/16 20:39	286
1,2-Dichlorobenzene	57	U	57	16	ppb v/v			05/27/16 20:39	286
1,2-Dichloroethane	57	U	57	12	ppb v/v			05/27/16 20:39	286
1,2-Dichloroethene, Total	210		110	10	ppb v/v			05/27/16 20:39	286
1,2-Dichloropropane	57	U	57	7.7	ppb v/v			05/27/16 20:39	286
1,2-Dichlorotetrafluoroethane	57	U	57	11	ppb v/v			05/27/16 20:39	286
1,3,5-Trimethylbenzene	57	U	57	11	ppb v/v			05/27/16 20:39	286
1,3-Butadiene	57	U	57	25	ppb v/v			05/27/16 20:39	286
1,3-Dichlorobenzene	57	U	57	16	ppb v/v			05/27/16 20:39	286

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-3**

**Lab Sample ID: 200-33696-3**

**Date Collected: 05/20/16 11:12**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	57	U	57	16	ppb v/v			05/27/16 20:39	286
1,4-Dioxane	1400	U	1400	160	ppb v/v			05/27/16 20:39	286
2,2,4-Trimethylpentane	57	U	57	11	ppb v/v			05/27/16 20:39	286
2-Chlorotoluene	57	U	57	9.4	ppb v/v			05/27/16 20:39	286
3-Chloropropene	140	U	140	19	ppb v/v			05/27/16 20:39	286
4-Ethyltoluene	57	U	57	13	ppb v/v			05/27/16 20:39	286
Acetone	1400	U	1400	250	ppb v/v			05/27/16 20:39	286
Benzene	57	U	57	12	ppb v/v			05/27/16 20:39	286
Bromodichloromethane	57	U	57	8.6	ppb v/v			05/27/16 20:39	286
Bromoethene(Vinyl Bromide)	57	U	57	13	ppb v/v			05/27/16 20:39	286
Bromoform	57	U	57	16	ppb v/v			05/27/16 20:39	286
Bromomethane	57	U	57	16	ppb v/v			05/27/16 20:39	286
Carbon disulfide	140	U	140	12	ppb v/v			05/27/16 20:39	286
Carbon tetrachloride	57	U	57	9.2	ppb v/v			05/27/16 20:39	286
Chlorobenzene	57	U	57	14	ppb v/v			05/27/16 20:39	286
Chloroethane	140	U	140	24	ppb v/v			05/27/16 20:39	286
<b>Chloroform</b>	<b>34</b>	<b>J</b>	57	23	ppb v/v			05/27/16 20:39	286
Chloromethane	140	U	140	27	ppb v/v			05/27/16 20:39	286
<b>cis-1,2-Dichloroethene</b>	<b>180</b>		57	10	ppb v/v			05/27/16 20:39	286
cis-1,3-Dichloropropene	57	U	57	6.6	ppb v/v			05/27/16 20:39	286
Cyclohexane	57	U	57	11	ppb v/v			05/27/16 20:39	286
Dibromochloromethane	57	U	57	13	ppb v/v			05/27/16 20:39	286
Dichlorodifluoromethane	140	U	140	23	ppb v/v			05/27/16 20:39	286
Ethylbenzene	57	U	57	9.4	ppb v/v			05/27/16 20:39	286
Freon TF	57	U	57	21	ppb v/v			05/27/16 20:39	286
Hexachlorobutadiene	57	U	57	23	ppb v/v			05/27/16 20:39	286
Isopropyl alcohol	1400	U	1400	280	ppb v/v			05/27/16 20:39	286
m,p-Xylene	140	U	140	20	ppb v/v			05/27/16 20:39	286
Methyl Butyl Ketone (2-Hexanone)	140	U	140	16	ppb v/v			05/27/16 20:39	286
Methyl Ethyl Ketone	140	U	140	15	ppb v/v			05/27/16 20:39	286
methyl isobutyl ketone	140	U	140	14	ppb v/v			05/27/16 20:39	286
Methyl tert-butyl ether	57	U	57	25	ppb v/v			05/27/16 20:39	286
Methylene Chloride	140	U	140	51	ppb v/v			05/27/16 20:39	286
n-Heptane	57	U	57	11	ppb v/v			05/27/16 20:39	286
n-Hexane	57	U	57	15	ppb v/v			05/27/16 20:39	286
Styrene	57	U	57	12	ppb v/v			05/27/16 20:39	286
tert-Butyl alcohol	1400	U	1400	240	ppb v/v			05/27/16 20:39	286
Tetrachloroethene	57	U	57	6.6	ppb v/v			05/27/16 20:39	286
Tetrahydrofuran	1400	U	1400	400	ppb v/v			05/27/16 20:39	286
Toluene	57	U	57	27	ppb v/v			05/27/16 20:39	286
<b>trans-1,2-Dichloroethene</b>	<b>25</b>	<b>J</b>	57	12	ppb v/v			05/27/16 20:39	286
trans-1,3-Dichloropropene	57	U	57	9.7	ppb v/v			05/27/16 20:39	286
<b>Trichloroethene</b>	<b>3500</b>		57	11	ppb v/v			05/27/16 20:39	286
Trichlorofluoromethane	57	U	57	11	ppb v/v			05/27/16 20:39	286
Vinyl chloride	57	U	57	9.2	ppb v/v			05/27/16 20:39	286
Xylene (total)	200	U	200	11	ppb v/v			05/27/16 20:39	286
Xylene, o-	57	U	57	11	ppb v/v			05/27/16 20:39	286
Naphthalene	140	U	140	16	ppb v/v			05/27/16 20:39	286

TestAmerica Burlington



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-3**

**Lab Sample ID: 200-33696-3**

**Date Collected: 05/20/16 11:12**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>890</b>		310	72	ug/m3			05/27/16 20:39	286
1,1,2,2-Tetrachloroethane	390	U	390	86	ug/m3			05/27/16 20:39	286
1,1,2-Trichloroethane	310	U	310	61	ug/m3			05/27/16 20:39	286
<b>1,1-Dichloroethane</b>	<b>290</b>		230	29	ug/m3			05/27/16 20:39	286
1,1-Dichloroethene	230	U	230	41	ug/m3			05/27/16 20:39	286
1,2,4-Trichlorobenzene	1100	U	1100	140	ug/m3			05/27/16 20:39	286
1,2,4-Trimethylbenzene	280	U	280	60	ug/m3			05/27/16 20:39	286
1,2-Dibromoethane	440	U	440	86	ug/m3			05/27/16 20:39	286
1,2-Dichlorobenzene	340	U	340	95	ug/m3			05/27/16 20:39	286
1,2-Dichloroethane	230	U	230	47	ug/m3			05/27/16 20:39	286
<b>1,2-Dichloroethene, Total</b>	<b>810</b>		450	40	ug/m3			05/27/16 20:39	286
1,2-Dichloropropane	260	U	260	36	ug/m3			05/27/16 20:39	286
1,2-Dichlorotetrafluoroethane	400	U	400	76	ug/m3			05/27/16 20:39	286
1,3,5-Trimethylbenzene	280	U	280	55	ug/m3			05/27/16 20:39	286
1,3-Butadiene	130	U	130	56	ug/m3			05/27/16 20:39	286
1,3-Dichlorobenzene	340	U	340	95	ug/m3			05/27/16 20:39	286
1,4-Dichlorobenzene	340	U	340	98	ug/m3			05/27/16 20:39	286
1,4-Dioxane	5200	U	5200	580	ug/m3			05/27/16 20:39	286
2,2,4-Trimethylpentane	270	U	270	52	ug/m3			05/27/16 20:39	286
2-Chlorotoluene	300	U	300	49	ug/m3			05/27/16 20:39	286
3-Chloropropene	450	U	450	61	ug/m3			05/27/16 20:39	286
4-Ethyltoluene	280	U	280	62	ug/m3			05/27/16 20:39	286
Acetone	3400	U	3400	580	ug/m3			05/27/16 20:39	286
Benzene	180	U	180	38	ug/m3			05/27/16 20:39	286
Bromodichloromethane	380	U	380	57	ug/m3			05/27/16 20:39	286
Bromoethene(Vinyl Bromide)	250	U	250	55	ug/m3			05/27/16 20:39	286
Bromoform	590	U	590	170	ug/m3			05/27/16 20:39	286
Bromomethane	220	U	220	62	ug/m3			05/27/16 20:39	286
Carbon disulfide	450	U	450	38	ug/m3			05/27/16 20:39	286
Carbon tetrachloride	360	U	360	58	ug/m3			05/27/16 20:39	286
Chlorobenzene	260	U	260	65	ug/m3			05/27/16 20:39	286
Chloroethane	380	U	380	64	ug/m3			05/27/16 20:39	286
<b>Chloroform</b>	<b>160</b>	<b>J</b>	280	110	ug/m3			05/27/16 20:39	286
Chloromethane	300	U	300	55	ug/m3			05/27/16 20:39	286
<b>cis-1,2-Dichloroethene</b>	<b>730</b>		230	40	ug/m3			05/27/16 20:39	286
cis-1,3-Dichloropropene	260	U	260	30	ug/m3			05/27/16 20:39	286
Cyclohexane	200	U	200	38	ug/m3			05/27/16 20:39	286
Dibromochloromethane	490	U	490	110	ug/m3			05/27/16 20:39	286
Dichlorodifluoromethane	710	U	710	110	ug/m3			05/27/16 20:39	286
Ethylbenzene	250	U	250	41	ug/m3			05/27/16 20:39	286
Freon TF	440	U	440	160	ug/m3			05/27/16 20:39	286
Hexachlorobutadiene	610	U	610	250	ug/m3			05/27/16 20:39	286
Isopropyl alcohol	3500	U	3500	690	ug/m3			05/27/16 20:39	286
m,p-Xylene	620	U	620	88	ug/m3			05/27/16 20:39	286
Methyl Butyl Ketone (2-Hexanone)	590	U	590	67	ug/m3			05/27/16 20:39	286
Methyl Ethyl Ketone	420	U	420	44	ug/m3			05/27/16 20:39	286
methyl isobutyl ketone	590	U	590	59	ug/m3			05/27/16 20:39	286
Methyl tert-butyl ether	210	U	210	92	ug/m3			05/27/16 20:39	286
Methylene Chloride	500	U	500	180	ug/m3			05/27/16 20:39	286

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-3**

**Lab Sample ID: 200-33696-3**

Date Collected: 05/20/16 11:12

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	230	U	230	47	ug/m3			05/27/16 20:39	286
n-Hexane	200	U	200	54	ug/m3			05/27/16 20:39	286
Styrene	240	U	240	52	ug/m3			05/27/16 20:39	286
tert-Butyl alcohol	4300	U	4300	740	ug/m3			05/27/16 20:39	286
Tetrachloroethene	390	U	390	45	ug/m3			05/27/16 20:39	286
Tetrahydrofuran	4200	U	4200	1200	ug/m3			05/27/16 20:39	286
Toluene	220	U	220	100	ug/m3			05/27/16 20:39	286
<b>trans-1,2-Dichloroethene</b>	<b>99</b>	<b>J</b>	230	49	ug/m3			05/27/16 20:39	286
trans-1,3-Dichloropropene	260	U	260	44	ug/m3			05/27/16 20:39	286
<b>Trichloroethene</b>	<b>19000</b>		310	60	ug/m3			05/27/16 20:39	286
Trichlorofluoromethane	320	U	320	61	ug/m3			05/27/16 20:39	286
Vinyl chloride	150	U	150	23	ug/m3			05/27/16 20:39	286
Xylene (total)	870	U	870	46	ug/m3			05/27/16 20:39	286
Xylene, o-	250	U	250	46	ug/m3			05/27/16 20:39	286
Naphthalene	750	U	750	85	ug/m3			05/27/16 20:39	286

**Client Sample ID: SV-4**

**Lab Sample ID: 200-33696-4**

Date Collected: 05/20/16 11:08

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>2.4</b>		0.40	0.092	ppb v/v			05/27/16 17:16	2
1,1,2,2-Tetrachloroethane	0.40	U	0.40	0.088	ppb v/v			05/27/16 17:16	2
1,1,2-Trichloroethane	0.40	U	0.40	0.078	ppb v/v			05/27/16 17:16	2
<b>1,1-Dichloroethane</b>	<b>0.22</b>	<b>J</b>	0.40	0.050	ppb v/v			05/27/16 17:16	2
1,1-Dichloroethene	0.40	U	0.40	0.072	ppb v/v			05/27/16 17:16	2
1,2,4-Trichlorobenzene	1.0	U	1.0	0.14	ppb v/v			05/27/16 17:16	2
<b>1,2,4-Trimethylbenzene</b>	<b>0.16</b>	<b>J</b>	0.40	0.086	ppb v/v			05/27/16 17:16	2
1,2-Dibromoethane	0.40	U	0.40	0.078	ppb v/v			05/27/16 17:16	2
1,2-Dichlorobenzene	0.40	U	0.40	0.11	ppb v/v			05/27/16 17:16	2
1,2-Dichloroethane	0.40	U	0.40	0.082	ppb v/v			05/27/16 17:16	2
<b>1,2-Dichloroethene, Total</b>	<b>5.1</b>		0.80	0.070	ppb v/v			05/27/16 17:16	2
1,2-Dichloropropane	0.40	U	0.40	0.054	ppb v/v			05/27/16 17:16	2
1,2-Dichlorotetrafluoroethane	0.40	U	0.40	0.076	ppb v/v			05/27/16 17:16	2
1,3,5-Trimethylbenzene	0.40	U	0.40	0.078	ppb v/v			05/27/16 17:16	2
1,3-Butadiene	0.40	U	0.40	0.18	ppb v/v			05/27/16 17:16	2
1,3-Dichlorobenzene	0.40	U	0.40	0.11	ppb v/v			05/27/16 17:16	2
1,4-Dichlorobenzene	0.40	U	0.40	0.11	ppb v/v			05/27/16 17:16	2
1,4-Dioxane	10	U	10	1.1	ppb v/v			05/27/16 17:16	2
<b>2,2,4-Trimethylpentane</b>	<b>0.46</b>		0.40	0.078	ppb v/v			05/27/16 17:16	2
2-Chlorotoluene	0.40	U	0.40	0.066	ppb v/v			05/27/16 17:16	2
3-Chloropropene	1.0	U	1.0	0.14	ppb v/v			05/27/16 17:16	2
4-Ethyltoluene	0.40	U	0.40	0.088	ppb v/v			05/27/16 17:16	2
<b>Acetone</b>	<b>5.2</b>	<b>J</b>	10	1.7	ppb v/v			05/27/16 17:16	2
<b>Benzene</b>	<b>1.0</b>		0.40	0.084	ppb v/v			05/27/16 17:16	2
<b>Bromodichloromethane</b>	<b>0.098</b>	<b>J</b>	0.40	0.060	ppb v/v			05/27/16 17:16	2
Bromoethene(Vinyl Bromide)	0.40	U	0.40	0.088	ppb v/v			05/27/16 17:16	2

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-4**

**Lab Sample ID: 200-33696-4**

**Date Collected: 05/20/16 11:08**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	0.40	U	0.40	0.11	ppb v/v			05/27/16 17:16	2
Bromomethane	0.40	U	0.40	0.11	ppb v/v			05/27/16 17:16	2
<b>Carbon disulfide</b>	<b>0.60</b>	<b>J</b>	1.0	0.086	ppb v/v			05/27/16 17:16	2
Carbon tetrachloride	0.40	U	0.40	0.064	ppb v/v			05/27/16 17:16	2
Chlorobenzene	0.40	U	0.40	0.098	ppb v/v			05/27/16 17:16	2
Chloroethane	1.0	U	1.0	0.17	ppb v/v			05/27/16 17:16	2
<b>Chloroform</b>	<b>3.4</b>		0.40	0.16	ppb v/v			05/27/16 17:16	2
Chloromethane	1.0	U	1.0	0.19	ppb v/v			05/27/16 17:16	2
<b>cis-1,2-Dichloroethene</b>	<b>4.5</b>		0.40	0.070	ppb v/v			05/27/16 17:16	2
cis-1,3-Dichloropropene	0.40	U	0.40	0.046	ppb v/v			05/27/16 17:16	2
<b>Cyclohexane</b>	<b>0.98</b>		0.40	0.078	ppb v/v			05/27/16 17:16	2
Dibromochloromethane	0.40	U	0.40	0.088	ppb v/v			05/27/16 17:16	2
<b>Dichlorodifluoromethane</b>	<b>0.55</b>	<b>J</b>	1.0	0.16	ppb v/v			05/27/16 17:16	2
<b>Ethylbenzene</b>	<b>0.23</b>	<b>J</b>	0.40	0.066	ppb v/v			05/27/16 17:16	2
Freon TF	0.40	U	0.40	0.15	ppb v/v			05/27/16 17:16	2
Hexachlorobutadiene	0.40	U	0.40	0.16	ppb v/v			05/27/16 17:16	2
Isopropyl alcohol	10	U	10	2.0	ppb v/v			05/27/16 17:16	2
<b>m,p-Xylene</b>	<b>0.86</b>	<b>J</b>	1.0	0.14	ppb v/v			05/27/16 17:16	2
Methyl Butyl Ketone (2-Hexanone)	1.0	U	1.0	0.11	ppb v/v			05/27/16 17:16	2
<b>Methyl Ethyl Ketone</b>	<b>0.88</b>	<b>J</b>	1.0	0.10	ppb v/v			05/27/16 17:16	2
methyl isobutyl ketone	1.0	U	1.0	0.10	ppb v/v			05/27/16 17:16	2
Methyl tert-butyl ether	0.40	U	0.40	0.18	ppb v/v			05/27/16 17:16	2
Methylene Chloride	1.0	U	1.0	0.36	ppb v/v			05/27/16 17:16	2
<b>n-Heptane</b>	<b>1.0</b>		0.40	0.080	ppb v/v			05/27/16 17:16	2
<b>n-Hexane</b>	<b>2.3</b>		0.40	0.11	ppb v/v			05/27/16 17:16	2
Styrene	0.40	U	0.40	0.086	ppb v/v			05/27/16 17:16	2
tert-Butyl alcohol	10	U	10	1.7	ppb v/v			05/27/16 17:16	2
<b>Tetrachloroethene</b>	<b>0.41</b>		0.40	0.046	ppb v/v			05/27/16 17:16	2
Tetrahydrofuran	10	U	10	2.8	ppb v/v			05/27/16 17:16	2
<b>Toluene</b>	<b>2.3</b>		0.40	0.19	ppb v/v			05/27/16 17:16	2
<b>trans-1,2-Dichloroethene</b>	<b>0.55</b>		0.40	0.086	ppb v/v			05/27/16 17:16	2
trans-1,3-Dichloropropene	0.40	U	0.40	0.068	ppb v/v			05/27/16 17:16	2
<b>Trichloroethene</b>	<b>72</b>		0.40	0.078	ppb v/v			05/27/16 17:16	2
<b>Trichlorofluoromethane</b>	<b>0.53</b>		0.40	0.076	ppb v/v			05/27/16 17:16	2
Vinyl chloride	0.40	U	0.40	0.064	ppb v/v			05/27/16 17:16	2
<b>Xylene (total)</b>	<b>1.1</b>	<b>J</b>	1.4	0.074	ppb v/v			05/27/16 17:16	2
<b>Xylene, o-</b>	<b>0.28</b>	<b>J</b>	0.40	0.074	ppb v/v			05/27/16 17:16	2
Naphthalene	1.0	U	1.0	0.11	ppb v/v			05/27/16 17:16	2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>13</b>		2.2	0.50	ug/m3			05/27/16 17:16	2
1,1,2,2-Tetrachloroethane	2.7	U	2.7	0.60	ug/m3			05/27/16 17:16	2
1,1,2-Trichloroethane	2.2	U	2.2	0.43	ug/m3			05/27/16 17:16	2
<b>1,1-Dichloroethane</b>	<b>0.90</b>	<b>J</b>	1.6	0.20	ug/m3			05/27/16 17:16	2
1,1-Dichloroethene	1.6	U	1.6	0.29	ug/m3			05/27/16 17:16	2
1,2,4-Trichlorobenzene	7.4	U	7.4	1.0	ug/m3			05/27/16 17:16	2
<b>1,2,4-Trimethylbenzene</b>	<b>0.79</b>	<b>J</b>	2.0	0.42	ug/m3			05/27/16 17:16	2
1,2-Dibromoethane	3.1	U	3.1	0.60	ug/m3			05/27/16 17:16	2
1,2-Dichlorobenzene	2.4	U	2.4	0.66	ug/m3			05/27/16 17:16	2

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-4**

**Lab Sample ID: 200-33696-4**

**Date Collected: 05/20/16 11:08**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.6	U	1.6	0.33	ug/m3			05/27/16 17:16	2
<b>1,2-Dichloroethene, Total</b>	<b>20</b>		3.2	0.28	ug/m3			05/27/16 17:16	2
1,2-Dichloropropane	1.8	U	1.8	0.25	ug/m3			05/27/16 17:16	2
1,2-Dichlorotetrafluoroethane	2.8	U	2.8	0.53	ug/m3			05/27/16 17:16	2
1,3,5-Trimethylbenzene	2.0	U	2.0	0.38	ug/m3			05/27/16 17:16	2
1,3-Butadiene	0.88	U	0.88	0.39	ug/m3			05/27/16 17:16	2
1,3-Dichlorobenzene	2.4	U	2.4	0.66	ug/m3			05/27/16 17:16	2
1,4-Dichlorobenzene	2.4	U	2.4	0.69	ug/m3			05/27/16 17:16	2
1,4-Dioxane	36	U	36	4.0	ug/m3			05/27/16 17:16	2
<b>2,2,4-Trimethylpentane</b>	<b>2.1</b>		1.9	0.36	ug/m3			05/27/16 17:16	2
2-Chlorotoluene	2.1	U	2.1	0.34	ug/m3			05/27/16 17:16	2
3-Chloropropene	3.1	U	3.1	0.43	ug/m3			05/27/16 17:16	2
4-Ethyltoluene	2.0	U	2.0	0.43	ug/m3			05/27/16 17:16	2
<b>Acetone</b>	<b>12</b>	<b>J</b>	24	4.1	ug/m3			05/27/16 17:16	2
<b>Benzene</b>	<b>3.2</b>		1.3	0.27	ug/m3			05/27/16 17:16	2
<b>Bromodichloromethane</b>	<b>0.66</b>	<b>J</b>	2.7	0.40	ug/m3			05/27/16 17:16	2
Bromoethene(Vinyl Bromide)	1.7	U	1.7	0.38	ug/m3			05/27/16 17:16	2
Bromoform	4.1	U	4.1	1.2	ug/m3			05/27/16 17:16	2
Bromomethane	1.6	U	1.6	0.43	ug/m3			05/27/16 17:16	2
<b>Carbon disulfide</b>	<b>1.9</b>	<b>J</b>	3.1	0.27	ug/m3			05/27/16 17:16	2
Carbon tetrachloride	2.5	U	2.5	0.40	ug/m3			05/27/16 17:16	2
Chlorobenzene	1.8	U	1.8	0.45	ug/m3			05/27/16 17:16	2
Chloroethane	2.6	U	2.6	0.45	ug/m3			05/27/16 17:16	2
<b>Chloroform</b>	<b>17</b>		2.0	0.80	ug/m3			05/27/16 17:16	2
Chloromethane	2.1	U	2.1	0.38	ug/m3			05/27/16 17:16	2
<b>cis-1,2-Dichloroethene</b>	<b>18</b>		1.6	0.28	ug/m3			05/27/16 17:16	2
cis-1,3-Dichloropropene	1.8	U	1.8	0.21	ug/m3			05/27/16 17:16	2
<b>Cyclohexane</b>	<b>3.4</b>		1.4	0.27	ug/m3			05/27/16 17:16	2
Dibromochloromethane	3.4	U	3.4	0.75	ug/m3			05/27/16 17:16	2
<b>Dichlorodifluoromethane</b>	<b>2.7</b>	<b>J</b>	4.9	0.79	ug/m3			05/27/16 17:16	2
<b>Ethylbenzene</b>	<b>1.0</b>	<b>J</b>	1.7	0.29	ug/m3			05/27/16 17:16	2
Freon TF	3.1	U	3.1	1.1	ug/m3			05/27/16 17:16	2
Hexachlorobutadiene	4.3	U	4.3	1.7	ug/m3			05/27/16 17:16	2
Isopropyl alcohol	25	U	25	4.8	ug/m3			05/27/16 17:16	2
<b>m,p-Xylene</b>	<b>3.8</b>	<b>J</b>	4.3	0.62	ug/m3			05/27/16 17:16	2
Methyl Butyl Ketone (2-Hexanone)	4.1	U	4.1	0.47	ug/m3			05/27/16 17:16	2
<b>Methyl Ethyl Ketone</b>	<b>2.6</b>	<b>J</b>	2.9	0.31	ug/m3			05/27/16 17:16	2
methyl isobutyl ketone	4.1	U	4.1	0.41	ug/m3			05/27/16 17:16	2
Methyl tert-butyl ether	1.4	U	1.4	0.64	ug/m3			05/27/16 17:16	2
Methylene Chloride	3.5	U	3.5	1.3	ug/m3			05/27/16 17:16	2
<b>n-Heptane</b>	<b>4.2</b>		1.6	0.33	ug/m3			05/27/16 17:16	2
<b>n-Hexane</b>	<b>8.0</b>		1.4	0.38	ug/m3			05/27/16 17:16	2
Styrene	1.7	U	1.7	0.37	ug/m3			05/27/16 17:16	2
tert-Butyl alcohol	30	U	30	5.2	ug/m3			05/27/16 17:16	2
<b>Tetrachloroethene</b>	<b>2.8</b>		2.7	0.31	ug/m3			05/27/16 17:16	2
Tetrahydrofuran	29	U	29	8.3	ug/m3			05/27/16 17:16	2
<b>Toluene</b>	<b>8.8</b>		1.5	0.70	ug/m3			05/27/16 17:16	2
<b>trans-1,2-Dichloroethene</b>	<b>2.2</b>		1.6	0.34	ug/m3			05/27/16 17:16	2

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-4**

**Lab Sample ID: 200-33696-4**

Date Collected: 05/20/16 11:08

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.8	U	1.8	0.31	ug/m3			05/27/16 17:16	2
<b>Trichloroethene</b>	<b>390</b>		2.1	0.42	ug/m3			05/27/16 17:16	2
<b>Trichlorofluoromethane</b>	<b>3.0</b>		2.2	0.43	ug/m3			05/27/16 17:16	2
Vinyl chloride	1.0	U	1.0	0.16	ug/m3			05/27/16 17:16	2
<b>Xylene (total)</b>	<b>5.0</b>	<b>J</b>	6.1	0.32	ug/m3			05/27/16 17:16	2
<b>Xylene, o-</b>	<b>1.2</b>	<b>J</b>	1.7	0.32	ug/m3			05/27/16 17:16	2
Naphthalene	5.2	U	5.2	0.60	ug/m3			05/27/16 17:16	2

**Client Sample ID: SV-5**

**Lab Sample ID: 200-33696-5**

Date Collected: 05/20/16 10:52

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>0.072</b>	<b>J</b>	0.20	0.046	ppb v/v			05/27/16 18:07	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.044	ppb v/v			05/27/16 18:07	1
1,1,2-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			05/27/16 18:07	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			05/27/16 18:07	1
1,1-Dichloroethene	0.20	U	0.20	0.036	ppb v/v			05/27/16 18:07	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.068	ppb v/v			05/27/16 18:07	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.051</b>	<b>J</b>	0.20	0.043	ppb v/v			05/27/16 18:07	1
1,2-Dibromoethane	0.20	U	0.20	0.039	ppb v/v			05/27/16 18:07	1
1,2-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/27/16 18:07	1
1,2-Dichloroethane	0.20	U	0.20	0.041	ppb v/v			05/27/16 18:07	1
<b>1,2-Dichloroethene, Total</b>	<b>0.18</b>	<b>J</b>	0.40	0.035	ppb v/v			05/27/16 18:07	1
1,2-Dichloropropane	0.20	U	0.20	0.027	ppb v/v			05/27/16 18:07	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.038	ppb v/v			05/27/16 18:07	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.039	ppb v/v			05/27/16 18:07	1
1,3-Butadiene	0.20	U	0.20	0.089	ppb v/v			05/27/16 18:07	1
1,3-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/27/16 18:07	1
1,4-Dichlorobenzene	0.20	U	0.20	0.057	ppb v/v			05/27/16 18:07	1
1,4-Dioxane	5.0	U	5.0	0.56	ppb v/v			05/27/16 18:07	1
<b>2,2,4-Trimethylpentane</b>	<b>0.15</b>	<b>J</b>	0.20	0.039	ppb v/v			05/27/16 18:07	1
2-Chlorotoluene	0.20	U	0.20	0.033	ppb v/v			05/27/16 18:07	1
3-Chloropropene	0.50	U	0.50	0.068	ppb v/v			05/27/16 18:07	1
4-Ethyltoluene	0.20	U	0.20	0.044	ppb v/v			05/27/16 18:07	1
<b>Acetone</b>	<b>5.2</b>		5.0	0.86	ppb v/v			05/27/16 18:07	1
<b>Benzene</b>	<b>0.32</b>		0.20	0.042	ppb v/v			05/27/16 18:07	1
Bromodichloromethane	0.20	U	0.20	0.030	ppb v/v			05/27/16 18:07	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.044	ppb v/v			05/27/16 18:07	1
Bromoform	0.20	U	0.20	0.056	ppb v/v			05/27/16 18:07	1
Bromomethane	0.20	U	0.20	0.056	ppb v/v			05/27/16 18:07	1
Carbon disulfide	0.50	U	0.50	0.043	ppb v/v			05/27/16 18:07	1
<b>Carbon tetrachloride</b>	<b>0.043</b>	<b>J</b>	0.20	0.032	ppb v/v			05/27/16 18:07	1
Chlorobenzene	0.20	U	0.20	0.049	ppb v/v			05/27/16 18:07	1
Chloroethane	0.50	U	0.50	0.085	ppb v/v			05/27/16 18:07	1
Chloroform	0.20	U	0.20	0.082	ppb v/v			05/27/16 18:07	1
Chloromethane	0.50	U	0.50	0.093	ppb v/v			05/27/16 18:07	1

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-5**

**Lab Sample ID: 200-33696-5**

Date Collected: 05/20/16 10:52

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>0.18</b>	<b>J</b>	0.20	0.035	ppb v/v			05/27/16 18:07	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.023	ppb v/v			05/27/16 18:07	1
<b>Cyclohexane</b>	<b>0.22</b>		0.20	0.039	ppb v/v			05/27/16 18:07	1
Dibromochloromethane	0.20	U	0.20	0.044	ppb v/v			05/27/16 18:07	1
<b>Dichlorodifluoromethane</b>	<b>0.20</b>	<b>J</b>	0.50	0.080	ppb v/v			05/27/16 18:07	1
<b>Ethylbenzene</b>	<b>0.070</b>	<b>J</b>	0.20	0.033	ppb v/v			05/27/16 18:07	1
Freon TF	0.20	U	0.20	0.075	ppb v/v			05/27/16 18:07	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			05/27/16 18:07	1
<b>Isopropyl alcohol</b>	<b>1.0</b>	<b>J</b>	5.0	0.98	ppb v/v			05/27/16 18:07	1
<b>m,p-Xylene</b>	<b>0.25</b>	<b>J</b>	0.50	0.071	ppb v/v			05/27/16 18:07	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.057	ppb v/v			05/27/16 18:07	1
<b>Methyl Ethyl Ketone</b>	<b>1.0</b>		0.50	0.052	ppb v/v			05/27/16 18:07	1
<b>methyl isobutyl ketone</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	ppb v/v			05/27/16 18:07	1
Methyl tert-butyl ether	0.20	U	0.20	0.089	ppb v/v			05/27/16 18:07	1
<b>Methylene Chloride</b>	<b>0.23</b>	<b>J</b>	0.50	0.18	ppb v/v			05/27/16 18:07	1
<b>n-Heptane</b>	<b>0.30</b>		0.20	0.040	ppb v/v			05/27/16 18:07	1
<b>n-Hexane</b>	<b>0.64</b>		0.20	0.054	ppb v/v			05/27/16 18:07	1
<b>Styrene</b>	<b>0.066</b>	<b>J</b>	0.20	0.043	ppb v/v			05/27/16 18:07	1
tert-Butyl alcohol	5.0	U	5.0	0.85	ppb v/v			05/27/16 18:07	1
<b>Tetrachloroethene</b>	<b>0.13</b>	<b>J</b>	0.20	0.023	ppb v/v			05/27/16 18:07	1
Tetrahydrofuran	5.0	U	5.0	1.4	ppb v/v			05/27/16 18:07	1
<b>Toluene</b>	<b>1.2</b>		0.20	0.093	ppb v/v			05/27/16 18:07	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.043	ppb v/v			05/27/16 18:07	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.034	ppb v/v			05/27/16 18:07	1
<b>Trichloroethene</b>	<b>1.7</b>		0.20	0.039	ppb v/v			05/27/16 18:07	1
<b>Trichlorofluoromethane</b>	<b>0.13</b>	<b>J</b>	0.20	0.038	ppb v/v			05/27/16 18:07	1
Vinyl chloride	0.20	U	0.20	0.032	ppb v/v			05/27/16 18:07	1
<b>Xylene (total)</b>	<b>0.33</b>	<b>J</b>	0.70	0.037	ppb v/v			05/27/16 18:07	1
<b>Xylene, o-</b>	<b>0.079</b>	<b>J</b>	0.20	0.037	ppb v/v			05/27/16 18:07	1
Naphthalene	0.50	U	0.50	0.057	ppb v/v			05/27/16 18:07	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>0.40</b>	<b>J</b>	1.1	0.25	ug/m3			05/27/16 18:07	1
1,1,1,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			05/27/16 18:07	1
1,1,2-Trichloroethane	1.1	U	1.1	0.21	ug/m3			05/27/16 18:07	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			05/27/16 18:07	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/27/16 18:07	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.50	ug/m3			05/27/16 18:07	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.25</b>	<b>J</b>	0.98	0.21	ug/m3			05/27/16 18:07	1
1,2-Dibromoethane	1.5	U	1.5	0.30	ug/m3			05/27/16 18:07	1
1,2-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/27/16 18:07	1
1,2-Dichloroethane	0.81	U	0.81	0.17	ug/m3			05/27/16 18:07	1
<b>1,2-Dichloroethene, Total</b>	<b>0.71</b>	<b>J</b>	1.6	0.14	ug/m3			05/27/16 18:07	1
1,2-Dichloropropane	0.92	U	0.92	0.12	ug/m3			05/27/16 18:07	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.27	ug/m3			05/27/16 18:07	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.19	ug/m3			05/27/16 18:07	1
1,3-Butadiene	0.44	U	0.44	0.20	ug/m3			05/27/16 18:07	1
1,3-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/27/16 18:07	1
1,4-Dichlorobenzene	1.2	U	1.2	0.34	ug/m3			05/27/16 18:07	1

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-5**

**Lab Sample ID: 200-33696-5**

**Date Collected: 05/20/16 10:52**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	18	U	18	2.0	ug/m3			05/27/16 18:07	1
<b>2,2,4-Trimethylpentane</b>	<b>0.70</b>	<b>J</b>	0.93	0.18	ug/m3			05/27/16 18:07	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/m3			05/27/16 18:07	1
3-Chloropropene	1.6	U	1.6	0.21	ug/m3			05/27/16 18:07	1
4-Ethyltoluene	0.98	U	0.98	0.22	ug/m3			05/27/16 18:07	1
<b>Acetone</b>	<b>12</b>		12	2.0	ug/m3			05/27/16 18:07	1
<b>Benzene</b>	<b>1.0</b>		0.64	0.13	ug/m3			05/27/16 18:07	1
Bromodichloromethane	1.3	U	1.3	0.20	ug/m3			05/27/16 18:07	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.19	ug/m3			05/27/16 18:07	1
Bromoform	2.1	U	2.1	0.58	ug/m3			05/27/16 18:07	1
Bromomethane	0.78	U	0.78	0.22	ug/m3			05/27/16 18:07	1
Carbon disulfide	1.6	U	1.6	0.13	ug/m3			05/27/16 18:07	1
<b>Carbon tetrachloride</b>	<b>0.27</b>	<b>J</b>	1.3	0.20	ug/m3			05/27/16 18:07	1
Chlorobenzene	0.92	U	0.92	0.23	ug/m3			05/27/16 18:07	1
Chloroethane	1.3	U	1.3	0.22	ug/m3			05/27/16 18:07	1
Chloroform	0.98	U	0.98	0.40	ug/m3			05/27/16 18:07	1
Chloromethane	1.0	U	1.0	0.19	ug/m3			05/27/16 18:07	1
<b>cis-1,2-Dichloroethene</b>	<b>0.71</b>	<b>J</b>	0.79	0.14	ug/m3			05/27/16 18:07	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			05/27/16 18:07	1
<b>Cyclohexane</b>	<b>0.75</b>		0.69	0.13	ug/m3			05/27/16 18:07	1
Dibromochloromethane	1.7	U	1.7	0.37	ug/m3			05/27/16 18:07	1
<b>Dichlorodifluoromethane</b>	<b>0.98</b>	<b>J</b>	2.5	0.40	ug/m3			05/27/16 18:07	1
<b>Ethylbenzene</b>	<b>0.30</b>	<b>J</b>	0.87	0.14	ug/m3			05/27/16 18:07	1
Freon TF	1.5	U	1.5	0.57	ug/m3			05/27/16 18:07	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			05/27/16 18:07	1
<b>Isopropyl alcohol</b>	<b>2.5</b>	<b>J</b>	12	2.4	ug/m3			05/27/16 18:07	1
<b>m,p-Xylene</b>	<b>1.1</b>	<b>J</b>	2.2	0.31	ug/m3			05/27/16 18:07	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.23	ug/m3			05/27/16 18:07	1
<b>Methyl Ethyl Ketone</b>	<b>3.0</b>		1.5	0.15	ug/m3			05/27/16 18:07	1
<b>methyl isobutyl ketone</b>	<b>0.48</b>	<b>J</b>	2.0	0.20	ug/m3			05/27/16 18:07	1
Methyl tert-butyl ether	0.72	U	0.72	0.32	ug/m3			05/27/16 18:07	1
<b>Methylene Chloride</b>	<b>0.79</b>	<b>J</b>	1.7	0.63	ug/m3			05/27/16 18:07	1
<b>n-Heptane</b>	<b>1.2</b>		0.82	0.16	ug/m3			05/27/16 18:07	1
<b>n-Hexane</b>	<b>2.2</b>		0.70	0.19	ug/m3			05/27/16 18:07	1
<b>Styrene</b>	<b>0.28</b>	<b>J</b>	0.85	0.18	ug/m3			05/27/16 18:07	1
tert-Butyl alcohol	15	U	15	2.6	ug/m3			05/27/16 18:07	1
<b>Tetrachloroethene</b>	<b>0.89</b>	<b>J</b>	1.4	0.16	ug/m3			05/27/16 18:07	1
Tetrahydrofuran	15	U	15	4.1	ug/m3			05/27/16 18:07	1
<b>Toluene</b>	<b>4.5</b>		0.75	0.35	ug/m3			05/27/16 18:07	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.17	ug/m3			05/27/16 18:07	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.15	ug/m3			05/27/16 18:07	1
<b>Trichloroethene</b>	<b>9.4</b>		1.1	0.21	ug/m3			05/27/16 18:07	1
<b>Trichlorofluoromethane</b>	<b>0.75</b>	<b>J</b>	1.1	0.21	ug/m3			05/27/16 18:07	1
Vinyl chloride	0.51	U	0.51	0.082	ug/m3			05/27/16 18:07	1
<b>Xylene (total)</b>	<b>1.4</b>	<b>J</b>	3.0	0.16	ug/m3			05/27/16 18:07	1
<b>Xylene, o-</b>	<b>0.34</b>	<b>J</b>	0.87	0.16	ug/m3			05/27/16 18:07	1
Naphthalene	2.6	U	2.6	0.30	ug/m3			05/27/16 18:07	1

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-6**

**Lab Sample ID: 200-33696-6**

**Date Collected: 05/20/16 11:00**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>1.0</b>		0.91	0.21	ppb v/v			05/27/16 18:57	4.55
1,1,2,2-Tetrachloroethane	0.91	U	0.91	0.20	ppb v/v			05/27/16 18:57	4.55
1,1,2-Trichloroethane	0.91	U	0.91	0.18	ppb v/v			05/27/16 18:57	4.55
1,1-Dichloroethane	0.91	U	0.91	0.11	ppb v/v			05/27/16 18:57	4.55
1,1-Dichloroethene	0.91	U	0.91	0.16	ppb v/v			05/27/16 18:57	4.55
1,2,4-Trichlorobenzene	2.3	U	2.3	0.31	ppb v/v			05/27/16 18:57	4.55
1,2,4-Trimethylbenzene	0.91	U	0.91	0.20	ppb v/v			05/27/16 18:57	4.55
1,2-Dibromoethane	0.91	U	0.91	0.18	ppb v/v			05/27/16 18:57	4.55
1,2-Dichlorobenzene	0.91	U	0.91	0.25	ppb v/v			05/27/16 18:57	4.55
1,2-Dichloroethane	0.91	U	0.91	0.19	ppb v/v			05/27/16 18:57	4.55
<b>1,2-Dichloroethene, Total</b>	<b>78</b>		1.8	0.16	ppb v/v			05/27/16 18:57	4.55
1,2-Dichloropropane	0.91	U	0.91	0.12	ppb v/v			05/27/16 18:57	4.55
1,2-Dichlorotetrafluoroethane	0.91	U	0.91	0.17	ppb v/v			05/27/16 18:57	4.55
1,3,5-Trimethylbenzene	0.91	U	0.91	0.18	ppb v/v			05/27/16 18:57	4.55
1,3-Butadiene	0.91	U	0.91	0.40	ppb v/v			05/27/16 18:57	4.55
1,3-Dichlorobenzene	0.91	U	0.91	0.25	ppb v/v			05/27/16 18:57	4.55
1,4-Dichlorobenzene	0.91	U	0.91	0.26	ppb v/v			05/27/16 18:57	4.55
1,4-Dioxane	23	U	23	2.5	ppb v/v			05/27/16 18:57	4.55
<b>2,2,4-Trimethylpentane</b>	<b>0.32</b>	<b>J</b>	0.91	0.18	ppb v/v			05/27/16 18:57	4.55
2-Chlorotoluene	0.91	U	0.91	0.15	ppb v/v			05/27/16 18:57	4.55
3-Chloropropene	2.3	U	2.3	0.31	ppb v/v			05/27/16 18:57	4.55
4-Ethyltoluene	0.91	U	0.91	0.20	ppb v/v			05/27/16 18:57	4.55
<b>Acetone</b>	<b>6.1</b>	<b>J</b>	23	3.9	ppb v/v			05/27/16 18:57	4.55
<b>Benzene</b>	<b>0.73</b>	<b>J</b>	0.91	0.19	ppb v/v			05/27/16 18:57	4.55
Bromodichloromethane	0.91	U	0.91	0.14	ppb v/v			05/27/16 18:57	4.55
Bromoethene(Vinyl Bromide)	0.91	U	0.91	0.20	ppb v/v			05/27/16 18:57	4.55
Bromoform	0.91	U	0.91	0.25	ppb v/v			05/27/16 18:57	4.55
Bromomethane	0.91	U	0.91	0.25	ppb v/v			05/27/16 18:57	4.55
Carbon disulfide	2.3	U	2.3	0.20	ppb v/v			05/27/16 18:57	4.55
Carbon tetrachloride	0.91	U	0.91	0.15	ppb v/v			05/27/16 18:57	4.55
Chlorobenzene	0.91	U	0.91	0.22	ppb v/v			05/27/16 18:57	4.55
Chloroethane	2.3	U	2.3	0.39	ppb v/v			05/27/16 18:57	4.55
<b>Chloroform</b>	<b>0.48</b>	<b>J</b>	0.91	0.37	ppb v/v			05/27/16 18:57	4.55
Chloromethane	2.3	U	2.3	0.42	ppb v/v			05/27/16 18:57	4.55
<b>cis-1,2-Dichloroethene</b>	<b>55</b>		0.91	0.16	ppb v/v			05/27/16 18:57	4.55
cis-1,3-Dichloropropene	0.91	U	0.91	0.10	ppb v/v			05/27/16 18:57	4.55
<b>Cyclohexane</b>	<b>0.48</b>	<b>J</b>	0.91	0.18	ppb v/v			05/27/16 18:57	4.55
Dibromochloromethane	0.91	U	0.91	0.20	ppb v/v			05/27/16 18:57	4.55
<b>Dichlorodifluoromethane</b>	<b>6.1</b>		2.3	0.36	ppb v/v			05/27/16 18:57	4.55
Ethylbenzene	0.91	U	0.91	0.15	ppb v/v			05/27/16 18:57	4.55
Freon TF	0.91	U	0.91	0.34	ppb v/v			05/27/16 18:57	4.55
Hexachlorobutadiene	0.91	U	0.91	0.37	ppb v/v			05/27/16 18:57	4.55
Isopropyl alcohol	23	U	23	4.5	ppb v/v			05/27/16 18:57	4.55
<b>m,p-Xylene</b>	<b>0.51</b>	<b>J</b>	2.3	0.32	ppb v/v			05/27/16 18:57	4.55
Methyl Butyl Ketone (2-Hexanone)	2.3	U	2.3	0.26	ppb v/v			05/27/16 18:57	4.55
<b>Methyl Ethyl Ketone</b>	<b>1.3</b>	<b>J</b>	2.3	0.24	ppb v/v			05/27/16 18:57	4.55
methyl isobutyl ketone	2.3	U	2.3	0.23	ppb v/v			05/27/16 18:57	4.55
Methyl tert-butyl ether	0.91	U	0.91	0.40	ppb v/v			05/27/16 18:57	4.55

TestAmerica Burlington



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-6**

**Lab Sample ID: 200-33696-6**

Date Collected: 05/20/16 11:00

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	2.3	U	2.3	0.82	ppb v/v			05/27/16 18:57	4.55
<b>n-Heptane</b>	<b>0.49</b>	<b>J</b>	0.91	0.18	ppb v/v			05/27/16 18:57	4.55
<b>n-Hexane</b>	<b>1.3</b>		0.91	0.25	ppb v/v			05/27/16 18:57	4.55
Styrene	0.91	U	0.91	0.20	ppb v/v			05/27/16 18:57	4.55
tert-Butyl alcohol	23	U	23	3.9	ppb v/v			05/27/16 18:57	4.55
<b>Tetrachloroethene</b>	<b>0.32</b>	<b>J</b>	0.91	0.10	ppb v/v			05/27/16 18:57	4.55
Tetrahydrofuran	23	U	23	6.4	ppb v/v			05/27/16 18:57	4.55
<b>Toluene</b>	<b>1.2</b>		0.91	0.42	ppb v/v			05/27/16 18:57	4.55
<b>trans-1,2-Dichloroethene</b>	<b>23</b>		0.91	0.20	ppb v/v			05/27/16 18:57	4.55
trans-1,3-Dichloropropene	0.91	U	0.91	0.15	ppb v/v			05/27/16 18:57	4.55
<b>Trichloroethene</b>	<b>110</b>		0.91	0.18	ppb v/v			05/27/16 18:57	4.55
<b>Trichlorofluoromethane</b>	<b>0.25</b>	<b>J</b>	0.91	0.17	ppb v/v			05/27/16 18:57	4.55
<b>Vinyl chloride</b>	<b>0.20</b>	<b>J</b>	0.91	0.15	ppb v/v			05/27/16 18:57	4.55
<b>Xylene (total)</b>	<b>0.69</b>	<b>J</b>	3.2	0.17	ppb v/v			05/27/16 18:57	4.55
<b>Xylene, o-</b>	<b>0.18</b>	<b>J</b>	0.91	0.17	ppb v/v			05/27/16 18:57	4.55
Naphthalene	2.3	U	2.3	0.26	ppb v/v			05/27/16 18:57	4.55
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>5.7</b>		5.0	1.1	ug/m3			05/27/16 18:57	4.55
1,1,2,2-Tetrachloroethane	6.2	U	6.2	1.4	ug/m3			05/27/16 18:57	4.55
1,1,2-Trichloroethane	5.0	U	5.0	0.97	ug/m3			05/27/16 18:57	4.55
1,1-Dichloroethane	3.7	U	3.7	0.46	ug/m3			05/27/16 18:57	4.55
1,1-Dichloroethene	3.6	U	3.6	0.65	ug/m3			05/27/16 18:57	4.55
1,2,4-Trichlorobenzene	17	U	17	2.3	ug/m3			05/27/16 18:57	4.55
1,2,4-Trimethylbenzene	4.5	U	4.5	0.96	ug/m3			05/27/16 18:57	4.55
1,2-Dibromoethane	7.0	U	7.0	1.4	ug/m3			05/27/16 18:57	4.55
1,2-Dichlorobenzene	5.5	U	5.5	1.5	ug/m3			05/27/16 18:57	4.55
1,2-Dichloroethane	3.7	U	3.7	0.76	ug/m3			05/27/16 18:57	4.55
<b>1,2-Dichloroethene, Total</b>	<b>310</b>		7.2	0.63	ug/m3			05/27/16 18:57	4.55
1,2-Dichloropropane	4.2	U	4.2	0.57	ug/m3			05/27/16 18:57	4.55
1,2-Dichlorotetrafluoroethane	6.4	U	6.4	1.2	ug/m3			05/27/16 18:57	4.55
1,3,5-Trimethylbenzene	4.5	U	4.5	0.87	ug/m3			05/27/16 18:57	4.55
1,3-Butadiene	2.0	U	2.0	0.90	ug/m3			05/27/16 18:57	4.55
1,3-Dichlorobenzene	5.5	U	5.5	1.5	ug/m3			05/27/16 18:57	4.55
1,4-Dichlorobenzene	5.5	U	5.5	1.6	ug/m3			05/27/16 18:57	4.55
1,4-Dioxane	82	U	82	9.2	ug/m3			05/27/16 18:57	4.55
<b>2,2,4-Trimethylpentane</b>	<b>1.5</b>	<b>J</b>	4.3	0.83	ug/m3			05/27/16 18:57	4.55
2-Chlorotoluene	4.7	U	4.7	0.78	ug/m3			05/27/16 18:57	4.55
3-Chloropropene	7.1	U	7.1	0.97	ug/m3			05/27/16 18:57	4.55
4-Ethyltoluene	4.5	U	4.5	0.98	ug/m3			05/27/16 18:57	4.55
<b>Acetone</b>	<b>14</b>	<b>J</b>	54	9.3	ug/m3			05/27/16 18:57	4.55
<b>Benzene</b>	<b>2.3</b>	<b>J</b>	2.9	0.61	ug/m3			05/27/16 18:57	4.55
Bromodichloromethane	6.1	U	6.1	0.91	ug/m3			05/27/16 18:57	4.55
Bromoethene(Vinyl Bromide)	4.0	U	4.0	0.88	ug/m3			05/27/16 18:57	4.55
Bromoform	9.4	U	9.4	2.6	ug/m3			05/27/16 18:57	4.55
Bromomethane	3.5	U	3.5	0.99	ug/m3			05/27/16 18:57	4.55
Carbon disulfide	7.1	U	7.1	0.61	ug/m3			05/27/16 18:57	4.55
Carbon tetrachloride	5.7	U	5.7	0.92	ug/m3			05/27/16 18:57	4.55
Chlorobenzene	4.2	U	4.2	1.0	ug/m3			05/27/16 18:57	4.55

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-6**

**Lab Sample ID: 200-33696-6**

Date Collected: 05/20/16 11:00

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	6.0	U	6.0	1.0	ug/m3			05/27/16 18:57	4.55
<b>Chloroform</b>	<b>2.4</b>	<b>J</b>	4.4	1.8	ug/m3			05/27/16 18:57	4.55
Chloromethane	4.7	U	4.7	0.87	ug/m3			05/27/16 18:57	4.55
<b>cis-1,2-Dichloroethene</b>	<b>220</b>		3.6	0.63	ug/m3			05/27/16 18:57	4.55
cis-1,3-Dichloropropene	4.1	U	4.1	0.47	ug/m3			05/27/16 18:57	4.55
<b>Cyclohexane</b>	<b>1.7</b>	<b>J</b>	3.1	0.61	ug/m3			05/27/16 18:57	4.55
Dibromochloromethane	7.8	U	7.8	1.7	ug/m3			05/27/16 18:57	4.55
<b>Dichlorodifluoromethane</b>	<b>30</b>		11	1.8	ug/m3			05/27/16 18:57	4.55
Ethylbenzene	4.0	U	4.0	0.65	ug/m3			05/27/16 18:57	4.55
Freon TF	7.0	U	7.0	2.6	ug/m3			05/27/16 18:57	4.55
Hexachlorobutadiene	9.7	U	9.7	4.0	ug/m3			05/27/16 18:57	4.55
Isopropyl alcohol	56	U	56	11	ug/m3			05/27/16 18:57	4.55
<b>m,p-Xylene</b>	<b>2.2</b>	<b>J</b>	9.9	1.4	ug/m3			05/27/16 18:57	4.55
Methyl Butyl Ketone (2-Hexanone)	9.3	U	9.3	1.1	ug/m3			05/27/16 18:57	4.55
<b>Methyl Ethyl Ketone</b>	<b>3.8</b>	<b>J</b>	6.7	0.70	ug/m3			05/27/16 18:57	4.55
methyl isobutyl ketone	9.3	U	9.3	0.93	ug/m3			05/27/16 18:57	4.55
Methyl tert-butyl ether	3.3	U	3.3	1.5	ug/m3			05/27/16 18:57	4.55
Methylene Chloride	7.9	U	7.9	2.8	ug/m3			05/27/16 18:57	4.55
<b>n-Heptane</b>	<b>2.0</b>	<b>J</b>	3.7	0.75	ug/m3			05/27/16 18:57	4.55
<b>n-Hexane</b>	<b>4.5</b>		3.2	0.87	ug/m3			05/27/16 18:57	4.55
Styrene	3.9	U	3.9	0.83	ug/m3			05/27/16 18:57	4.55
tert-Butyl alcohol	69	U	69	12	ug/m3			05/27/16 18:57	4.55
<b>Tetrachloroethene</b>	<b>2.2</b>	<b>J</b>	6.2	0.71	ug/m3			05/27/16 18:57	4.55
Tetrahydrofuran	67	U	67	19	ug/m3			05/27/16 18:57	4.55
<b>Toluene</b>	<b>4.6</b>		3.4	1.6	ug/m3			05/27/16 18:57	4.55
<b>trans-1,2-Dichloroethene</b>	<b>90</b>		3.6	0.78	ug/m3			05/27/16 18:57	4.55
trans-1,3-Dichloropropene	4.1	U	4.1	0.70	ug/m3			05/27/16 18:57	4.55
<b>Trichloroethene</b>	<b>610</b>		4.9	0.95	ug/m3			05/27/16 18:57	4.55
<b>Trichlorofluoromethane</b>	<b>1.4</b>	<b>J</b>	5.1	0.97	ug/m3			05/27/16 18:57	4.55
<b>Vinyl chloride</b>	<b>0.51</b>	<b>J</b>	2.3	0.37	ug/m3			05/27/16 18:57	4.55
<b>Xylene (total)</b>	<b>3.0</b>	<b>J</b>	14	0.73	ug/m3			05/27/16 18:57	4.55
<b>Xylene, o-</b>	<b>0.77</b>	<b>J</b>	4.0	0.73	ug/m3			05/27/16 18:57	4.55
Naphthalene	12	U	12	1.4	ug/m3			05/27/16 18:57	4.55

**Client Sample ID: SV-7**

**Lab Sample ID: 200-33696-7**

Date Collected: 05/20/16 11:31

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.30	U	0.30	0.069	ppb v/v			05/27/16 19:48	1.5
1,1,1,2-Tetrachloroethane	0.30	U	0.30	0.066	ppb v/v			05/27/16 19:48	1.5
1,1,2-Trichloroethane	0.30	U	0.30	0.059	ppb v/v			05/27/16 19:48	1.5
1,1-Dichloroethane	0.30	U	0.30	0.038	ppb v/v			05/27/16 19:48	1.5
1,1-Dichloroethene	0.30	U	0.30	0.054	ppb v/v			05/27/16 19:48	1.5
1,2,4-Trichlorobenzene	0.75	U	0.75	0.10	ppb v/v			05/27/16 19:48	1.5
<b>1,2,4-Trimethylbenzene</b>	<b>0.074</b>	<b>J</b>	0.30	0.065	ppb v/v			05/27/16 19:48	1.5
1,2-Dibromoethane	0.30	U	0.30	0.059	ppb v/v			05/27/16 19:48	1.5

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-7**

**Lab Sample ID: 200-33696-7**

**Date Collected: 05/20/16 11:31**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.30	U	0.30	0.083	ppb v/v			05/27/16 19:48	1.5
1,2-Dichloroethane	0.30	U	0.30	0.062	ppb v/v			05/27/16 19:48	1.5
1,2-Dichloroethene, Total	0.60	U	0.60	0.053	ppb v/v			05/27/16 19:48	1.5
1,2-Dichloropropane	0.30	U	0.30	0.041	ppb v/v			05/27/16 19:48	1.5
1,2-Dichlorotetrafluoroethane	0.30	U	0.30	0.057	ppb v/v			05/27/16 19:48	1.5
1,3,5-Trimethylbenzene	0.30	U	0.30	0.059	ppb v/v			05/27/16 19:48	1.5
1,3-Butadiene	0.30	U	0.30	0.13	ppb v/v			05/27/16 19:48	1.5
1,3-Dichlorobenzene	0.30	U	0.30	0.083	ppb v/v			05/27/16 19:48	1.5
1,4-Dichlorobenzene	0.30	U	0.30	0.086	ppb v/v			05/27/16 19:48	1.5
<b>1,4-Dioxane</b>	<b>14</b>		7.5	0.84	ppb v/v			05/27/16 19:48	1.5
<b>2,2,4-Trimethylpentane</b>	<b>0.19</b>	<b>J</b>	0.30	0.059	ppb v/v			05/27/16 19:48	1.5
2-Chlorotoluene	0.30	U	0.30	0.050	ppb v/v			05/27/16 19:48	1.5
3-Chloropropene	0.75	U	0.75	0.10	ppb v/v			05/27/16 19:48	1.5
4-Ethyltoluene	0.30	U	0.30	0.066	ppb v/v			05/27/16 19:48	1.5
<b>Acetone</b>	<b>58</b>		7.5	1.3	ppb v/v			05/27/16 19:48	1.5
<b>Benzene</b>	<b>2.1</b>		0.30	0.063	ppb v/v			05/27/16 19:48	1.5
Bromodichloromethane	0.30	U	0.30	0.045	ppb v/v			05/27/16 19:48	1.5
Bromoethene(Vinyl Bromide)	0.30	U	0.30	0.066	ppb v/v			05/27/16 19:48	1.5
Bromoform	0.30	U	0.30	0.084	ppb v/v			05/27/16 19:48	1.5
Bromomethane	0.30	U	0.30	0.084	ppb v/v			05/27/16 19:48	1.5
<b>Carbon disulfide</b>	<b>0.65</b>	<b>J</b>	0.75	0.065	ppb v/v			05/27/16 19:48	1.5
<b>Carbon tetrachloride</b>	<b>0.075</b>	<b>J</b>	0.30	0.048	ppb v/v			05/27/16 19:48	1.5
Chlorobenzene	0.30	U	0.30	0.074	ppb v/v			05/27/16 19:48	1.5
<b>Chloroethane</b>	<b>0.21</b>	<b>J</b>	0.75	0.13	ppb v/v			05/27/16 19:48	1.5
Chloroform	0.30	U	0.30	0.12	ppb v/v			05/27/16 19:48	1.5
Chloromethane	0.75	U	0.75	0.14	ppb v/v			05/27/16 19:48	1.5
cis-1,2-Dichloroethene	0.30	U	0.30	0.053	ppb v/v			05/27/16 19:48	1.5
cis-1,3-Dichloropropene	0.30	U	0.30	0.035	ppb v/v			05/27/16 19:48	1.5
<b>Cyclohexane</b>	<b>28</b>		0.30	0.059	ppb v/v			05/27/16 19:48	1.5
Dibromochloromethane	0.30	U	0.30	0.066	ppb v/v			05/27/16 19:48	1.5
<b>Dichlorodifluoromethane</b>	<b>0.39</b>	<b>J</b>	0.75	0.12	ppb v/v			05/27/16 19:48	1.5
<b>Ethylbenzene</b>	<b>0.10</b>	<b>J</b>	0.30	0.050	ppb v/v			05/27/16 19:48	1.5
Freon TF	0.30	U	0.30	0.11	ppb v/v			05/27/16 19:48	1.5
Hexachlorobutadiene	0.30	U	0.30	0.12	ppb v/v			05/27/16 19:48	1.5
<b>Isopropyl alcohol</b>	<b>1.6</b>	<b>J</b>	7.5	1.5	ppb v/v			05/27/16 19:48	1.5
<b>m,p-Xylene</b>	<b>0.30</b>	<b>J</b>	0.75	0.11	ppb v/v			05/27/16 19:48	1.5
Methyl Butyl Ketone (2-Hexanone)	0.75	U	0.75	0.086	ppb v/v			05/27/16 19:48	1.5
<b>Methyl Ethyl Ketone</b>	<b>3.8</b>		0.75	0.078	ppb v/v			05/27/16 19:48	1.5
<b>methyl isobutyl ketone</b>	<b>0.56</b>	<b>J</b>	0.75	0.075	ppb v/v			05/27/16 19:48	1.5
Methyl tert-butyl ether	0.30	U	0.30	0.13	ppb v/v			05/27/16 19:48	1.5
<b>Methylene Chloride</b>	<b>0.36</b>	<b>J</b>	0.75	0.27	ppb v/v			05/27/16 19:48	1.5
<b>n-Heptane</b>	<b>10</b>		0.30	0.060	ppb v/v			05/27/16 19:48	1.5
<b>n-Hexane</b>	<b>29</b>		0.30	0.081	ppb v/v			05/27/16 19:48	1.5
Styrene	0.30	U	0.30	0.065	ppb v/v			05/27/16 19:48	1.5
tert-Butyl alcohol	7.5	U	7.5	1.3	ppb v/v			05/27/16 19:48	1.5
<b>Tetrachloroethene</b>	<b>0.20</b>	<b>J</b>	0.30	0.035	ppb v/v			05/27/16 19:48	1.5
Tetrahydrofuran	7.5	U	7.5	2.1	ppb v/v			05/27/16 19:48	1.5
<b>Toluene</b>	<b>2.4</b>		0.30	0.14	ppb v/v			05/27/16 19:48	1.5

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-7**

**Lab Sample ID: 200-33696-7**

**Date Collected: 05/20/16 11:31**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.30	U	0.30	0.065	ppb v/v			05/27/16 19:48	1.5
trans-1,3-Dichloropropene	0.30	U	0.30	0.051	ppb v/v			05/27/16 19:48	1.5
<b>Trichloroethene</b>	<b>1.1</b>		0.30	0.059	ppb v/v			05/27/16 19:48	1.5
<b>Trichlorofluoromethane</b>	<b>0.25</b>	<b>J</b>	0.30	0.057	ppb v/v			05/27/16 19:48	1.5
Vinyl chloride	0.30	U	0.30	0.048	ppb v/v			05/27/16 19:48	1.5
<b>Xylene (total)</b>	<b>0.41</b>	<b>J</b>	1.1	0.056	ppb v/v			05/27/16 19:48	1.5
<b>Xylene, o-</b>	<b>0.11</b>	<b>J</b>	0.30	0.056	ppb v/v			05/27/16 19:48	1.5
Naphthalene	0.75	U	0.75	0.086	ppb v/v			05/27/16 19:48	1.5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.6	U	1.6	0.38	ug/m3			05/27/16 19:48	1.5
1,1,1,2-Tetrachloroethane	2.1	U	2.1	0.45	ug/m3			05/27/16 19:48	1.5
1,1,2-Trichloroethane	1.6	U	1.6	0.32	ug/m3			05/27/16 19:48	1.5
1,1-Dichloroethane	1.2	U	1.2	0.15	ug/m3			05/27/16 19:48	1.5
1,1-Dichloroethene	1.2	U	1.2	0.21	ug/m3			05/27/16 19:48	1.5
1,2,4-Trichlorobenzene	5.6	U	5.6	0.76	ug/m3			05/27/16 19:48	1.5
<b>1,2,4-Trimethylbenzene</b>	<b>0.36</b>	<b>J</b>	1.5	0.32	ug/m3			05/27/16 19:48	1.5
1,2-Dibromoethane	2.3	U	2.3	0.45	ug/m3			05/27/16 19:48	1.5
1,2-Dichlorobenzene	1.8	U	1.8	0.50	ug/m3			05/27/16 19:48	1.5
1,2-Dichloroethane	1.2	U	1.2	0.25	ug/m3			05/27/16 19:48	1.5
1,2-Dichloroethene, Total	2.4	U	2.4	0.21	ug/m3			05/27/16 19:48	1.5
1,2-Dichloropropane	1.4	U	1.4	0.19	ug/m3			05/27/16 19:48	1.5
1,2-Dichlorotetrafluoroethane	2.1	U	2.1	0.40	ug/m3			05/27/16 19:48	1.5
1,3,5-Trimethylbenzene	1.5	U	1.5	0.29	ug/m3			05/27/16 19:48	1.5
1,3-Butadiene	0.66	U	0.66	0.30	ug/m3			05/27/16 19:48	1.5
1,3-Dichlorobenzene	1.8	U	1.8	0.50	ug/m3			05/27/16 19:48	1.5
1,4-Dichlorobenzene	1.8	U	1.8	0.51	ug/m3			05/27/16 19:48	1.5
<b>1,4-Dioxane</b>	<b>49</b>		27	3.0	ug/m3			05/27/16 19:48	1.5
<b>2,2,4-Trimethylpentane</b>	<b>0.88</b>	<b>J</b>	1.4	0.27	ug/m3			05/27/16 19:48	1.5
2-Chlorotoluene	1.6	U	1.6	0.26	ug/m3			05/27/16 19:48	1.5
3-Chloropropene	2.3	U	2.3	0.32	ug/m3			05/27/16 19:48	1.5
4-Ethyltoluene	1.5	U	1.5	0.32	ug/m3			05/27/16 19:48	1.5
<b>Acetone</b>	<b>140</b>		18	3.1	ug/m3			05/27/16 19:48	1.5
<b>Benzene</b>	<b>6.8</b>		0.96	0.20	ug/m3			05/27/16 19:48	1.5
Bromodichloromethane	2.0	U	2.0	0.30	ug/m3			05/27/16 19:48	1.5
Bromoethene(Vinyl Bromide)	1.3	U	1.3	0.29	ug/m3			05/27/16 19:48	1.5
Bromoform	3.1	U	3.1	0.87	ug/m3			05/27/16 19:48	1.5
Bromomethane	1.2	U	1.2	0.33	ug/m3			05/27/16 19:48	1.5
<b>Carbon disulfide</b>	<b>2.0</b>	<b>J</b>	2.3	0.20	ug/m3			05/27/16 19:48	1.5
<b>Carbon tetrachloride</b>	<b>0.47</b>	<b>J</b>	1.9	0.30	ug/m3			05/27/16 19:48	1.5
Chlorobenzene	1.4	U	1.4	0.34	ug/m3			05/27/16 19:48	1.5
<b>Chloroethane</b>	<b>0.55</b>	<b>J</b>	2.0	0.34	ug/m3			05/27/16 19:48	1.5
Chloroform	1.5	U	1.5	0.60	ug/m3			05/27/16 19:48	1.5
Chloromethane	1.5	U	1.5	0.29	ug/m3			05/27/16 19:48	1.5
cis-1,2-Dichloroethene	1.2	U	1.2	0.21	ug/m3			05/27/16 19:48	1.5
cis-1,3-Dichloropropene	1.4	U	1.4	0.16	ug/m3			05/27/16 19:48	1.5
<b>Cyclohexane</b>	<b>95</b>		1.0	0.20	ug/m3			05/27/16 19:48	1.5
Dibromochloromethane	2.6	U	2.6	0.56	ug/m3			05/27/16 19:48	1.5
<b>Dichlorodifluoromethane</b>	<b>1.9</b>	<b>J</b>	3.7	0.59	ug/m3			05/27/16 19:48	1.5

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-7**

**Lab Sample ID: 200-33696-7**

Date Collected: 05/20/16 11:31

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Ethylbenzene</b>	<b>0.45</b>	<b>J</b>	1.3	0.21	ug/m3			05/27/16 19:48	1.5
Freon TF	2.3	U	2.3	0.86	ug/m3			05/27/16 19:48	1.5
Hexachlorobutadiene	3.2	U	3.2	1.3	ug/m3			05/27/16 19:48	1.5
<b>Isopropyl alcohol</b>	<b>4.1</b>	<b>J</b>	18	3.6	ug/m3			05/27/16 19:48	1.5
<b>m,p-Xylene</b>	<b>1.3</b>	<b>J</b>	3.3	0.46	ug/m3			05/27/16 19:48	1.5
Methyl Butyl Ketone (2-Hexanone)	3.1	U	3.1	0.35	ug/m3			05/27/16 19:48	1.5
<b>Methyl Ethyl Ketone</b>	<b>11</b>		2.2	0.23	ug/m3			05/27/16 19:48	1.5
<b>methyl isobutyl ketone</b>	<b>2.3</b>	<b>J</b>	3.1	0.31	ug/m3			05/27/16 19:48	1.5
Methyl tert-butyl ether	1.1	U	1.1	0.48	ug/m3			05/27/16 19:48	1.5
<b>Methylene Chloride</b>	<b>1.3</b>	<b>J</b>	2.6	0.94	ug/m3			05/27/16 19:48	1.5
<b>n-Heptane</b>	<b>42</b>		1.2	0.25	ug/m3			05/27/16 19:48	1.5
<b>n-Hexane</b>	<b>100</b>		1.1	0.29	ug/m3			05/27/16 19:48	1.5
Styrene	1.3	U	1.3	0.27	ug/m3			05/27/16 19:48	1.5
tert-Butyl alcohol	23	U	23	3.9	ug/m3			05/27/16 19:48	1.5
<b>Tetrachloroethene</b>	<b>1.4</b>	<b>J</b>	2.0	0.23	ug/m3			05/27/16 19:48	1.5
Tetrahydrofuran	22	U	22	6.2	ug/m3			05/27/16 19:48	1.5
<b>Toluene</b>	<b>9.0</b>		1.1	0.53	ug/m3			05/27/16 19:48	1.5
trans-1,2-Dichloroethene	1.2	U	1.2	0.26	ug/m3			05/27/16 19:48	1.5
trans-1,3-Dichloropropene	1.4	U	1.4	0.23	ug/m3			05/27/16 19:48	1.5
<b>Trichloroethene</b>	<b>5.9</b>		1.6	0.31	ug/m3			05/27/16 19:48	1.5
<b>Trichlorofluoromethane</b>	<b>1.4</b>	<b>J</b>	1.7	0.32	ug/m3			05/27/16 19:48	1.5
Vinyl chloride	0.77	U	0.77	0.12	ug/m3			05/27/16 19:48	1.5
<b>Xylene (total)</b>	<b>1.8</b>	<b>J</b>	4.6	0.24	ug/m3			05/27/16 19:48	1.5
<b>Xylene, o-</b>	<b>0.46</b>	<b>J</b>	1.3	0.24	ug/m3			05/27/16 19:48	1.5
Naphthalene	3.9	U	3.9	0.45	ug/m3			05/27/16 19:48	1.5

**Client Sample ID: IA-1**

**Lab Sample ID: 200-33696-8**

Date Collected: 05/20/16 11:10

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>0.047</b>	<b>J</b>	0.20	0.046	ppb v/v			05/27/16 03:29	1
1,1,1,2-Tetrachloroethane	0.20	U	0.20	0.044	ppb v/v			05/27/16 03:29	1
1,1,2-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			05/27/16 03:29	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			05/27/16 03:29	1
1,1-Dichloroethene	0.20	U	0.20	0.036	ppb v/v			05/27/16 03:29	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.068	ppb v/v			05/27/16 03:29	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.052</b>	<b>J</b>	0.20	0.043	ppb v/v			05/27/16 03:29	1
1,2-Dibromoethane	0.20	U	0.20	0.039	ppb v/v			05/27/16 03:29	1
1,2-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/27/16 03:29	1
1,2-Dichloroethane	0.20	U	0.20	0.041	ppb v/v			05/27/16 03:29	1
<b>1,2-Dichloroethene, Total</b>	<b>0.056</b>	<b>J</b>	0.40	0.035	ppb v/v			05/27/16 03:29	1
1,2-Dichloropropane	0.20	U	0.20	0.027	ppb v/v			05/27/16 03:29	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.038	ppb v/v			05/27/16 03:29	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.039	ppb v/v			05/27/16 03:29	1
<b>1,3-Butadiene</b>	<b>0.11</b>	<b>J</b>	0.20	0.089	ppb v/v			05/27/16 03:29	1
1,3-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/27/16 03:29	1

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: IA-1**

**Lab Sample ID: 200-33696-8**

Date Collected: 05/20/16 11:10

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dichlorobenzene</b>	<b>0.21</b>		0.20	0.057	ppb v/v			05/27/16 03:29	1
1,4-Dioxane	5.0	U	5.0	0.56	ppb v/v			05/27/16 03:29	1
<b>2,2,4-Trimethylpentane</b>	<b>0.071</b>	<b>J</b>	0.20	0.039	ppb v/v			05/27/16 03:29	1
2-Chlorotoluene	0.20	U	0.20	0.033	ppb v/v			05/27/16 03:29	1
3-Chloropropene	0.50	U	0.50	0.068	ppb v/v			05/27/16 03:29	1
4-Ethyltoluene	0.20	U	0.20	0.044	ppb v/v			05/27/16 03:29	1
<b>Acetone</b>	<b>1.1</b>	<b>J</b>	5.0	0.86	ppb v/v			05/27/16 03:29	1
<b>Benzene</b>	<b>0.45</b>		0.20	0.042	ppb v/v			05/27/16 03:29	1
Bromodichloromethane	0.20	U	0.20	0.030	ppb v/v			05/27/16 03:29	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.044	ppb v/v			05/27/16 03:29	1
Bromoform	0.20	U	0.20	0.056	ppb v/v			05/27/16 03:29	1
Bromomethane	0.20	U	0.20	0.056	ppb v/v			05/27/16 03:29	1
Carbon disulfide	0.50	U	0.50	0.043	ppb v/v			05/27/16 03:29	1
<b>Carbon tetrachloride</b>	<b>0.080</b>	<b>J</b>	0.20	0.032	ppb v/v			05/27/16 03:29	1
Chlorobenzene	0.20	U	0.20	0.049	ppb v/v			05/27/16 03:29	1
Chloroethane	0.50	U	0.50	0.085	ppb v/v			05/27/16 03:29	1
Chloroform	0.20	U	0.20	0.082	ppb v/v			05/27/16 03:29	1
<b>Chloromethane</b>	<b>0.45</b>	<b>J</b>	0.50	0.093	ppb v/v			05/27/16 03:29	1
<b>cis-1,2-Dichloroethene</b>	<b>0.056</b>	<b>J</b>	0.20	0.035	ppb v/v			05/27/16 03:29	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.023	ppb v/v			05/27/16 03:29	1
<b>Cyclohexane</b>	<b>0.051</b>	<b>J</b>	0.20	0.039	ppb v/v			05/27/16 03:29	1
Dibromochloromethane	0.20	U	0.20	0.044	ppb v/v			05/27/16 03:29	1
<b>Dichlorodifluoromethane</b>	<b>0.55</b>		0.50	0.080	ppb v/v			05/27/16 03:29	1
<b>Ethylbenzene</b>	<b>0.052</b>	<b>J</b>	0.20	0.033	ppb v/v			05/27/16 03:29	1
<b>Freon TF</b>	<b>0.085</b>	<b>J</b>	0.20	0.075	ppb v/v			05/27/16 03:29	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			05/27/16 03:29	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			05/27/16 03:29	1
<b>m,p-Xylene</b>	<b>0.22</b>	<b>J</b>	0.50	0.071	ppb v/v			05/27/16 03:29	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.057	ppb v/v			05/27/16 03:29	1
Methyl Ethyl Ketone	0.50	U	0.50	0.052	ppb v/v			05/27/16 03:29	1
methyl isobutyl ketone	0.50	U	0.50	0.050	ppb v/v			05/27/16 03:29	1
Methyl tert-butyl ether	0.20	U	0.20	0.089	ppb v/v			05/27/16 03:29	1
<b>Methylene Chloride</b>	<b>0.24</b>	<b>J</b>	0.50	0.18	ppb v/v			05/27/16 03:29	1
<b>n-Heptane</b>	<b>0.046</b>	<b>J</b>	0.20	0.040	ppb v/v			05/27/16 03:29	1
<b>n-Hexane</b>	<b>0.16</b>	<b>J</b>	0.20	0.054	ppb v/v			05/27/16 03:29	1
Styrene	0.20	U	0.20	0.043	ppb v/v			05/27/16 03:29	1
tert-Butyl alcohol	5.0	U	5.0	0.85	ppb v/v			05/27/16 03:29	1
<b>Tetrachloroethene</b>	<b>0.024</b>	<b>J</b>	0.20	0.023	ppb v/v			05/27/16 03:29	1
Tetrahydrofuran	5.0	U	5.0	1.4	ppb v/v			05/27/16 03:29	1
<b>Toluene</b>	<b>0.59</b>		0.20	0.093	ppb v/v			05/27/16 03:29	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.043	ppb v/v			05/27/16 03:29	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.034	ppb v/v			05/27/16 03:29	1
<b>Trichloroethene</b>	<b>0.27</b>		0.20	0.039	ppb v/v			05/27/16 03:29	1
<b>Trichlorofluoromethane</b>	<b>0.28</b>		0.20	0.038	ppb v/v			05/27/16 03:29	1
Vinyl chloride	0.20	U	0.20	0.032	ppb v/v			05/27/16 03:29	1
<b>Xylene (total)</b>	<b>0.29</b>	<b>J</b>	0.70	0.037	ppb v/v			05/27/16 03:29	1
<b>Xylene, o-</b>	<b>0.074</b>	<b>J</b>	0.20	0.037	ppb v/v			05/27/16 03:29	1
Naphthalene	0.50	U	0.50	0.057	ppb v/v			05/27/16 03:29	1

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: IA-1**

**Lab Sample ID: 200-33696-8**

**Date Collected: 05/20/16 11:10**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>0.26</b>	<b>J</b>	1.1	0.25	ug/m3			05/27/16 03:29	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			05/27/16 03:29	1
1,1,2-Trichloroethane	1.1	U	1.1	0.21	ug/m3			05/27/16 03:29	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			05/27/16 03:29	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/27/16 03:29	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.50	ug/m3			05/27/16 03:29	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.25</b>	<b>J</b>	0.98	0.21	ug/m3			05/27/16 03:29	1
1,2-Dibromoethane	1.5	U	1.5	0.30	ug/m3			05/27/16 03:29	1
1,2-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/27/16 03:29	1
1,2-Dichloroethane	0.81	U	0.81	0.17	ug/m3			05/27/16 03:29	1
<b>1,2-Dichloroethene, Total</b>	<b>0.22</b>	<b>J</b>	1.6	0.14	ug/m3			05/27/16 03:29	1
1,2-Dichloropropane	0.92	U	0.92	0.12	ug/m3			05/27/16 03:29	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.27	ug/m3			05/27/16 03:29	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.19	ug/m3			05/27/16 03:29	1
<b>1,3-Butadiene</b>	<b>0.25</b>	<b>J</b>	0.44	0.20	ug/m3			05/27/16 03:29	1
1,3-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/27/16 03:29	1
<b>1,4-Dichlorobenzene</b>	<b>1.3</b>		1.2	0.34	ug/m3			05/27/16 03:29	1
1,4-Dioxane	18	U	18	2.0	ug/m3			05/27/16 03:29	1
<b>2,2,4-Trimethylpentane</b>	<b>0.33</b>	<b>J</b>	0.93	0.18	ug/m3			05/27/16 03:29	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/m3			05/27/16 03:29	1
3-Chloropropene	1.6	U	1.6	0.21	ug/m3			05/27/16 03:29	1
4-Ethyltoluene	0.98	U	0.98	0.22	ug/m3			05/27/16 03:29	1
<b>Acetone</b>	<b>2.5</b>	<b>J</b>	12	2.0	ug/m3			05/27/16 03:29	1
<b>Benzene</b>	<b>1.4</b>		0.64	0.13	ug/m3			05/27/16 03:29	1
Bromodichloromethane	1.3	U	1.3	0.20	ug/m3			05/27/16 03:29	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.19	ug/m3			05/27/16 03:29	1
Bromoform	2.1	U	2.1	0.58	ug/m3			05/27/16 03:29	1
Bromomethane	0.78	U	0.78	0.22	ug/m3			05/27/16 03:29	1
Carbon disulfide	1.6	U	1.6	0.13	ug/m3			05/27/16 03:29	1
<b>Carbon tetrachloride</b>	<b>0.50</b>	<b>J</b>	1.3	0.20	ug/m3			05/27/16 03:29	1
Chlorobenzene	0.92	U	0.92	0.23	ug/m3			05/27/16 03:29	1
Chloroethane	1.3	U	1.3	0.22	ug/m3			05/27/16 03:29	1
Chloroform	0.98	U	0.98	0.40	ug/m3			05/27/16 03:29	1
<b>Chloromethane</b>	<b>0.93</b>	<b>J</b>	1.0	0.19	ug/m3			05/27/16 03:29	1
<b>cis-1,2-Dichloroethene</b>	<b>0.22</b>	<b>J</b>	0.79	0.14	ug/m3			05/27/16 03:29	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			05/27/16 03:29	1
<b>Cyclohexane</b>	<b>0.17</b>	<b>J</b>	0.69	0.13	ug/m3			05/27/16 03:29	1
Dibromochloromethane	1.7	U	1.7	0.37	ug/m3			05/27/16 03:29	1
<b>Dichlorodifluoromethane</b>	<b>2.7</b>		2.5	0.40	ug/m3			05/27/16 03:29	1
<b>Ethylbenzene</b>	<b>0.22</b>	<b>J</b>	0.87	0.14	ug/m3			05/27/16 03:29	1
<b>Freon TF</b>	<b>0.65</b>	<b>J</b>	1.5	0.57	ug/m3			05/27/16 03:29	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			05/27/16 03:29	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			05/27/16 03:29	1
<b>m,p-Xylene</b>	<b>0.95</b>	<b>J</b>	2.2	0.31	ug/m3			05/27/16 03:29	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.23	ug/m3			05/27/16 03:29	1
Methyl Ethyl Ketone	1.5	U	1.5	0.15	ug/m3			05/27/16 03:29	1
methyl isobutyl ketone	2.0	U	2.0	0.20	ug/m3			05/27/16 03:29	1
Methyl tert-butyl ether	0.72	U	0.72	0.32	ug/m3			05/27/16 03:29	1
<b>Methylene Chloride</b>	<b>0.83</b>	<b>J</b>	1.7	0.63	ug/m3			05/27/16 03:29	1

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: IA-1**

**Lab Sample ID: 200-33696-8**

**Date Collected: 05/20/16 11:10**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	0.19	J	0.82	0.16	ug/m3			05/27/16 03:29	1
n-Hexane	0.57	J	0.70	0.19	ug/m3			05/27/16 03:29	1
Styrene	0.85	U	0.85	0.18	ug/m3			05/27/16 03:29	1
tert-Butyl alcohol	15	U	15	2.6	ug/m3			05/27/16 03:29	1
Tetrachloroethene	0.16	J	1.4	0.16	ug/m3			05/27/16 03:29	1
Tetrahydrofuran	15	U	15	4.1	ug/m3			05/27/16 03:29	1
Toluene	2.2		0.75	0.35	ug/m3			05/27/16 03:29	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.17	ug/m3			05/27/16 03:29	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.15	ug/m3			05/27/16 03:29	1
Trichloroethene	1.4		1.1	0.21	ug/m3			05/27/16 03:29	1
Trichlorofluoromethane	1.6		1.1	0.21	ug/m3			05/27/16 03:29	1
Vinyl chloride	0.51	U	0.51	0.082	ug/m3			05/27/16 03:29	1
Xylene (total)	1.3	J	3.0	0.16	ug/m3			05/27/16 03:29	1
Xylene, o-	0.32	J	0.87	0.16	ug/m3			05/27/16 03:29	1
Naphthalene	2.6	U	2.6	0.30	ug/m3			05/27/16 03:29	1

**Client Sample ID: IA-2**

**Lab Sample ID: 200-33696-9**

**Date Collected: 05/20/16 11:05**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.20	0.046	ppb v/v			05/27/16 04:20	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.044	ppb v/v			05/27/16 04:20	1
1,1,2-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			05/27/16 04:20	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			05/27/16 04:20	1
1,1-Dichloroethene	0.20	U	0.20	0.036	ppb v/v			05/27/16 04:20	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.068	ppb v/v			05/27/16 04:20	1
1,2,4-Trimethylbenzene	0.065	J	0.20	0.043	ppb v/v			05/27/16 04:20	1
1,2-Dibromoethane	0.20	U	0.20	0.039	ppb v/v			05/27/16 04:20	1
1,2-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/27/16 04:20	1
1,2-Dichloroethane	0.20	U	0.20	0.041	ppb v/v			05/27/16 04:20	1
1,2-Dichloroethene, Total	1.6		0.40	0.035	ppb v/v			05/27/16 04:20	1
1,2-Dichloropropane	0.20	U	0.20	0.027	ppb v/v			05/27/16 04:20	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.038	ppb v/v			05/27/16 04:20	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.039	ppb v/v			05/27/16 04:20	1
1,3-Butadiene	0.17	J	0.20	0.089	ppb v/v			05/27/16 04:20	1
1,3-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/27/16 04:20	1
1,4-Dichlorobenzene	0.075	J	0.20	0.057	ppb v/v			05/27/16 04:20	1
1,4-Dioxane	31		5.0	0.56	ppb v/v			05/27/16 04:20	1
2,2,4-Trimethylpentane	0.078	J	0.20	0.039	ppb v/v			05/27/16 04:20	1
2-Chlorotoluene	0.20	U	0.20	0.033	ppb v/v			05/27/16 04:20	1
3-Chloropropene	0.50	U	0.50	0.068	ppb v/v			05/27/16 04:20	1
4-Ethyltoluene	0.20	U	0.20	0.044	ppb v/v			05/27/16 04:20	1
Acetone	6.9		5.0	0.86	ppb v/v			05/27/16 04:20	1
Benzene	0.71		0.20	0.042	ppb v/v			05/27/16 04:20	1
Bromodichloromethane	0.20	U	0.20	0.030	ppb v/v			05/27/16 04:20	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.044	ppb v/v			05/27/16 04:20	1

TestAmerica Burlington



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: IA-2**

**Lab Sample ID: 200-33696-9**

**Date Collected: 05/20/16 11:05**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	0.20	U	0.20	0.056	ppb v/v			05/27/16 04:20	1
Bromomethane	0.20	U	0.20	0.056	ppb v/v			05/27/16 04:20	1
<b>Carbon disulfide</b>	<b>0.30</b>	<b>J</b>	0.50	0.043	ppb v/v			05/27/16 04:20	1
<b>Carbon tetrachloride</b>	<b>0.073</b>	<b>J</b>	0.20	0.032	ppb v/v			05/27/16 04:20	1
Chlorobenzene	0.20	U	0.20	0.049	ppb v/v			05/27/16 04:20	1
<b>Chloroethane</b>	<b>0.26</b>	<b>J</b>	0.50	0.085	ppb v/v			05/27/16 04:20	1
Chloroform	0.20	U	0.20	0.082	ppb v/v			05/27/16 04:20	1
<b>Chloromethane</b>	<b>0.70</b>		0.50	0.093	ppb v/v			05/27/16 04:20	1
<b>cis-1,2-Dichloroethene</b>	<b>1.5</b>		0.20	0.035	ppb v/v			05/27/16 04:20	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.023	ppb v/v			05/27/16 04:20	1
Cyclohexane	0.20	U	0.20	0.039	ppb v/v			05/27/16 04:20	1
Dibromochloromethane	0.20	U	0.20	0.044	ppb v/v			05/27/16 04:20	1
<b>Dichlorodifluoromethane</b>	<b>0.50</b>		0.50	0.080	ppb v/v			05/27/16 04:20	1
<b>Ethylbenzene</b>	<b>0.070</b>	<b>J</b>	0.20	0.033	ppb v/v			05/27/16 04:20	1
<b>Freon TF</b>	<b>0.076</b>	<b>J</b>	0.20	0.075	ppb v/v			05/27/16 04:20	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			05/27/16 04:20	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			05/27/16 04:20	1
<b>m,p-Xylene</b>	<b>0.27</b>	<b>J</b>	0.50	0.071	ppb v/v			05/27/16 04:20	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.057	ppb v/v			05/27/16 04:20	1
<b>Methyl Ethyl Ketone</b>	<b>0.49</b>	<b>J</b>	0.50	0.052	ppb v/v			05/27/16 04:20	1
methyl isobutyl ketone	0.50	U	0.50	0.050	ppb v/v			05/27/16 04:20	1
Methyl tert-butyl ether	0.20	U	0.20	0.089	ppb v/v			05/27/16 04:20	1
<b>Methylene Chloride</b>	<b>0.20</b>	<b>J</b>	0.50	0.18	ppb v/v			05/27/16 04:20	1
n-Heptane	0.20	U	0.20	0.040	ppb v/v			05/27/16 04:20	1
<b>n-Hexane</b>	<b>0.24</b>		0.20	0.054	ppb v/v			05/27/16 04:20	1
<b>Styrene</b>	<b>0.047</b>	<b>J</b>	0.20	0.043	ppb v/v			05/27/16 04:20	1
tert-Butyl alcohol	5.0	U	5.0	0.85	ppb v/v			05/27/16 04:20	1
<b>Tetrachloroethene</b>	<b>0.035</b>	<b>J</b>	0.20	0.023	ppb v/v			05/27/16 04:20	1
Tetrahydrofuran	5.0	U	5.0	1.4	ppb v/v			05/27/16 04:20	1
<b>Toluene</b>	<b>0.65</b>		0.20	0.093	ppb v/v			05/27/16 04:20	1
<b>trans-1,2-Dichloroethene</b>	<b>0.10</b>	<b>J</b>	0.20	0.043	ppb v/v			05/27/16 04:20	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.034	ppb v/v			05/27/16 04:20	1
<b>Trichloroethene</b>	<b>6.4</b>		0.20	0.039	ppb v/v			05/27/16 04:20	1
<b>Trichlorofluoromethane</b>	<b>0.23</b>		0.20	0.038	ppb v/v			05/27/16 04:20	1
<b>Vinyl chloride</b>	<b>0.035</b>	<b>J</b>	0.20	0.032	ppb v/v			05/27/16 04:20	1
<b>Xylene (total)</b>	<b>0.36</b>	<b>J</b>	0.70	0.037	ppb v/v			05/27/16 04:20	1
<b>Xylene, o-</b>	<b>0.085</b>	<b>J</b>	0.20	0.037	ppb v/v			05/27/16 04:20	1
Naphthalene	0.50	U	0.50	0.057	ppb v/v			05/27/16 04:20	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/m3			05/27/16 04:20	1
1,1,1,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			05/27/16 04:20	1
1,1,2-Trichloroethane	1.1	U	1.1	0.21	ug/m3			05/27/16 04:20	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			05/27/16 04:20	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/27/16 04:20	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.50	ug/m3			05/27/16 04:20	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.32</b>	<b>J</b>	0.98	0.21	ug/m3			05/27/16 04:20	1
1,2-Dibromoethane	1.5	U	1.5	0.30	ug/m3			05/27/16 04:20	1
1,2-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/27/16 04:20	1

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: IA-2**

**Lab Sample ID: 200-33696-9**

**Date Collected: 05/20/16 11:05**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.81	U	0.81	0.17	ug/m3			05/27/16 04:20	1
<b>1,2-Dichloroethene, Total</b>	<b>6.3</b>		1.6	0.14	ug/m3			05/27/16 04:20	1
1,2-Dichloropropane	0.92	U	0.92	0.12	ug/m3			05/27/16 04:20	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.27	ug/m3			05/27/16 04:20	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.19	ug/m3			05/27/16 04:20	1
<b>1,3-Butadiene</b>	<b>0.38</b>	<b>J</b>	0.44	0.20	ug/m3			05/27/16 04:20	1
1,3-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/27/16 04:20	1
<b>1,4-Dichlorobenzene</b>	<b>0.45</b>	<b>J</b>	1.2	0.34	ug/m3			05/27/16 04:20	1
<b>1,4-Dioxane</b>	<b>110</b>		18	2.0	ug/m3			05/27/16 04:20	1
<b>2,2,4-Trimethylpentane</b>	<b>0.37</b>	<b>J</b>	0.93	0.18	ug/m3			05/27/16 04:20	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/m3			05/27/16 04:20	1
3-Chloropropene	1.6	U	1.6	0.21	ug/m3			05/27/16 04:20	1
4-Ethyltoluene	0.98	U	0.98	0.22	ug/m3			05/27/16 04:20	1
<b>Acetone</b>	<b>16</b>		12	2.0	ug/m3			05/27/16 04:20	1
<b>Benzene</b>	<b>2.3</b>		0.64	0.13	ug/m3			05/27/16 04:20	1
Bromodichloromethane	1.3	U	1.3	0.20	ug/m3			05/27/16 04:20	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.19	ug/m3			05/27/16 04:20	1
Bromoform	2.1	U	2.1	0.58	ug/m3			05/27/16 04:20	1
Bromomethane	0.78	U	0.78	0.22	ug/m3			05/27/16 04:20	1
<b>Carbon disulfide</b>	<b>0.93</b>	<b>J</b>	1.6	0.13	ug/m3			05/27/16 04:20	1
<b>Carbon tetrachloride</b>	<b>0.46</b>	<b>J</b>	1.3	0.20	ug/m3			05/27/16 04:20	1
Chlorobenzene	0.92	U	0.92	0.23	ug/m3			05/27/16 04:20	1
<b>Chloroethane</b>	<b>0.68</b>	<b>J</b>	1.3	0.22	ug/m3			05/27/16 04:20	1
Chloroform	0.98	U	0.98	0.40	ug/m3			05/27/16 04:20	1
<b>Chloromethane</b>	<b>1.4</b>		1.0	0.19	ug/m3			05/27/16 04:20	1
<b>cis-1,2-Dichloroethene</b>	<b>5.9</b>		0.79	0.14	ug/m3			05/27/16 04:20	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			05/27/16 04:20	1
Cyclohexane	0.69	U	0.69	0.13	ug/m3			05/27/16 04:20	1
Dibromochloromethane	1.7	U	1.7	0.37	ug/m3			05/27/16 04:20	1
<b>Dichlorodifluoromethane</b>	<b>2.5</b>		2.5	0.40	ug/m3			05/27/16 04:20	1
<b>Ethylbenzene</b>	<b>0.30</b>	<b>J</b>	0.87	0.14	ug/m3			05/27/16 04:20	1
<b>Freon TF</b>	<b>0.58</b>	<b>J</b>	1.5	0.57	ug/m3			05/27/16 04:20	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			05/27/16 04:20	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			05/27/16 04:20	1
<b>m,p-Xylene</b>	<b>1.2</b>	<b>J</b>	2.2	0.31	ug/m3			05/27/16 04:20	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.23	ug/m3			05/27/16 04:20	1
<b>Methyl Ethyl Ketone</b>	<b>1.4</b>	<b>J</b>	1.5	0.15	ug/m3			05/27/16 04:20	1
methyl isobutyl ketone	2.0	U	2.0	0.20	ug/m3			05/27/16 04:20	1
Methyl tert-butyl ether	0.72	U	0.72	0.32	ug/m3			05/27/16 04:20	1
<b>Methylene Chloride</b>	<b>0.69</b>	<b>J</b>	1.7	0.63	ug/m3			05/27/16 04:20	1
n-Heptane	0.82	U	0.82	0.16	ug/m3			05/27/16 04:20	1
<b>n-Hexane</b>	<b>0.85</b>		0.70	0.19	ug/m3			05/27/16 04:20	1
<b>Styrene</b>	<b>0.20</b>	<b>J</b>	0.85	0.18	ug/m3			05/27/16 04:20	1
tert-Butyl alcohol	15	U	15	2.6	ug/m3			05/27/16 04:20	1
<b>Tetrachloroethene</b>	<b>0.24</b>	<b>J</b>	1.4	0.16	ug/m3			05/27/16 04:20	1
Tetrahydrofuran	15	U	15	4.1	ug/m3			05/27/16 04:20	1
<b>Toluene</b>	<b>2.5</b>		0.75	0.35	ug/m3			05/27/16 04:20	1
<b>trans-1,2-Dichloroethene</b>	<b>0.42</b>	<b>J</b>	0.79	0.17	ug/m3			05/27/16 04:20	1

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: IA-2**

**Lab Sample ID: 200-33696-9**

Date Collected: 05/20/16 11:05

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.91	U	0.91	0.15	ug/m3			05/27/16 04:20	1
<b>Trichloroethene</b>	<b>35</b>		1.1	0.21	ug/m3			05/27/16 04:20	1
<b>Trichlorofluoromethane</b>	<b>1.3</b>		1.1	0.21	ug/m3			05/27/16 04:20	1
<b>Vinyl chloride</b>	<b>0.089</b>	<b>J</b>	0.51	0.082	ug/m3			05/27/16 04:20	1
<b>Xylene (total)</b>	<b>1.5</b>	<b>J</b>	3.0	0.16	ug/m3			05/27/16 04:20	1
<b>Xylene, o-</b>	<b>0.37</b>	<b>J</b>	0.87	0.16	ug/m3			05/27/16 04:20	1
Naphthalene	2.6	U	2.6	0.30	ug/m3			05/27/16 04:20	1

**Client Sample ID: OA-1**

**Lab Sample ID: 200-33696-10**

Date Collected: 05/20/16 11:22

Matrix: Air

Date Received: 05/25/16 10:15

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.20	0.046	ppb v/v			05/27/16 05:12	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.044	ppb v/v			05/27/16 05:12	1
1,1,2-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			05/27/16 05:12	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			05/27/16 05:12	1
1,1-Dichloroethene	0.20	U	0.20	0.036	ppb v/v			05/27/16 05:12	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.068	ppb v/v			05/27/16 05:12	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.064</b>	<b>J</b>	0.20	0.043	ppb v/v			05/27/16 05:12	1
1,2-Dibromoethane	0.20	U	0.20	0.039	ppb v/v			05/27/16 05:12	1
1,2-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/27/16 05:12	1
1,2-Dichloroethane	0.20	U	0.20	0.041	ppb v/v			05/27/16 05:12	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.035	ppb v/v			05/27/16 05:12	1
1,2-Dichloropropane	0.20	U	0.20	0.027	ppb v/v			05/27/16 05:12	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.038	ppb v/v			05/27/16 05:12	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.039	ppb v/v			05/27/16 05:12	1
1,3-Butadiene	0.20	U	0.20	0.089	ppb v/v			05/27/16 05:12	1
1,3-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/27/16 05:12	1
1,4-Dichlorobenzene	0.20	U	0.20	0.057	ppb v/v			05/27/16 05:12	1
1,4-Dioxane	5.0	U	5.0	0.56	ppb v/v			05/27/16 05:12	1
<b>2,2,4-Trimethylpentane</b>	<b>0.096</b>	<b>J</b>	0.20	0.039	ppb v/v			05/27/16 05:12	1
2-Chlorotoluene	0.20	U	0.20	0.033	ppb v/v			05/27/16 05:12	1
3-Chloropropene	0.50	U	0.50	0.068	ppb v/v			05/27/16 05:12	1
4-Ethyltoluene	0.20	U	0.20	0.044	ppb v/v			05/27/16 05:12	1
<b>Acetone</b>	<b>2.5</b>	<b>J</b>	5.0	0.86	ppb v/v			05/27/16 05:12	1
<b>Benzene</b>	<b>0.22</b>		0.20	0.042	ppb v/v			05/27/16 05:12	1
Bromodichloromethane	0.20	U	0.20	0.030	ppb v/v			05/27/16 05:12	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.044	ppb v/v			05/27/16 05:12	1
Bromoform	0.20	U	0.20	0.056	ppb v/v			05/27/16 05:12	1
Bromomethane	0.20	U	0.20	0.056	ppb v/v			05/27/16 05:12	1
<b>Carbon disulfide</b>	<b>0.076</b>	<b>J</b>	0.50	0.043	ppb v/v			05/27/16 05:12	1
<b>Carbon tetrachloride</b>	<b>0.066</b>	<b>J</b>	0.20	0.032	ppb v/v			05/27/16 05:12	1
Chlorobenzene	0.20	U	0.20	0.049	ppb v/v			05/27/16 05:12	1
Chloroethane	0.50	U	0.50	0.085	ppb v/v			05/27/16 05:12	1
Chloroform	0.20	U	0.20	0.082	ppb v/v			05/27/16 05:12	1
<b>Chloromethane</b>	<b>0.55</b>		0.50	0.093	ppb v/v			05/27/16 05:12	1

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: OA-1**

**Lab Sample ID: 200-33696-10**

**Date Collected: 05/20/16 11:22**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			05/27/16 05:12	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.023	ppb v/v			05/27/16 05:12	1
Cyclohexane	0.20	U	0.20	0.039	ppb v/v			05/27/16 05:12	1
Dibromochloromethane	0.20	U	0.20	0.044	ppb v/v			05/27/16 05:12	1
<b>Dichlorodifluoromethane</b>	<b>0.48</b>	<b>J</b>	0.50	0.080	ppb v/v			05/27/16 05:12	1
<b>Ethylbenzene</b>	<b>0.070</b>	<b>J</b>	0.20	0.033	ppb v/v			05/27/16 05:12	1
Freon TF	0.20	U	0.20	0.075	ppb v/v			05/27/16 05:12	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			05/27/16 05:12	1
<b>Isopropyl alcohol</b>	<b>1.4</b>	<b>J</b>	5.0	0.98	ppb v/v			05/27/16 05:12	1
<b>m,p-Xylene</b>	<b>0.26</b>	<b>J</b>	0.50	0.071	ppb v/v			05/27/16 05:12	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.057	ppb v/v			05/27/16 05:12	1
<b>Methyl Ethyl Ketone</b>	<b>0.20</b>	<b>J</b>	0.50	0.052	ppb v/v			05/27/16 05:12	1
methyl isobutyl ketone	0.50	U	0.50	0.050	ppb v/v			05/27/16 05:12	1
Methyl tert-butyl ether	0.20	U	0.20	0.089	ppb v/v			05/27/16 05:12	1
<b>Methylene Chloride</b>	<b>0.24</b>	<b>J</b>	0.50	0.18	ppb v/v			05/27/16 05:12	1
<b>n-Heptane</b>	<b>0.060</b>	<b>J</b>	0.20	0.040	ppb v/v			05/27/16 05:12	1
<b>n-Hexane</b>	<b>0.17</b>	<b>J</b>	0.20	0.054	ppb v/v			05/27/16 05:12	1
<b>Styrene</b>	<b>0.048</b>	<b>J</b>	0.20	0.043	ppb v/v			05/27/16 05:12	1
tert-Butyl alcohol	5.0	U	5.0	0.85	ppb v/v			05/27/16 05:12	1
Tetrachloroethene	0.20	U	0.20	0.023	ppb v/v			05/27/16 05:12	1
Tetrahydrofuran	5.0	U	5.0	1.4	ppb v/v			05/27/16 05:12	1
<b>Toluene</b>	<b>0.57</b>		0.20	0.093	ppb v/v			05/27/16 05:12	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.043	ppb v/v			05/27/16 05:12	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.034	ppb v/v			05/27/16 05:12	1
<b>Trichloroethene</b>	<b>0.043</b>	<b>J</b>	0.20	0.039	ppb v/v			05/27/16 05:12	1
<b>Trichlorofluoromethane</b>	<b>0.22</b>		0.20	0.038	ppb v/v			05/27/16 05:12	1
Vinyl chloride	0.20	U	0.20	0.032	ppb v/v			05/27/16 05:12	1
<b>Xylene (total)</b>	<b>0.35</b>	<b>J</b>	0.70	0.037	ppb v/v			05/27/16 05:12	1
<b>Xylene, o-</b>	<b>0.092</b>	<b>J</b>	0.20	0.037	ppb v/v			05/27/16 05:12	1
Naphthalene	0.50	U	0.50	0.057	ppb v/v			05/27/16 05:12	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/m3			05/27/16 05:12	1
1,1,1,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			05/27/16 05:12	1
1,1,2-Trichloroethane	1.1	U	1.1	0.21	ug/m3			05/27/16 05:12	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			05/27/16 05:12	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/27/16 05:12	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.50	ug/m3			05/27/16 05:12	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.31</b>	<b>J</b>	0.98	0.21	ug/m3			05/27/16 05:12	1
1,2-Dibromoethane	1.5	U	1.5	0.30	ug/m3			05/27/16 05:12	1
1,2-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/27/16 05:12	1
1,2-Dichloroethane	0.81	U	0.81	0.17	ug/m3			05/27/16 05:12	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.14	ug/m3			05/27/16 05:12	1
1,2-Dichloropropane	0.92	U	0.92	0.12	ug/m3			05/27/16 05:12	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.27	ug/m3			05/27/16 05:12	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.19	ug/m3			05/27/16 05:12	1
1,3-Butadiene	0.44	U	0.44	0.20	ug/m3			05/27/16 05:12	1
1,3-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/27/16 05:12	1
1,4-Dichlorobenzene	1.2	U	1.2	0.34	ug/m3			05/27/16 05:12	1

TestAmerica Burlington

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: OA-1**

**Lab Sample ID: 200-33696-10**

**Date Collected: 05/20/16 11:22**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	18	U	18	2.0	ug/m3			05/27/16 05:12	1
<b>2,2,4-Trimethylpentane</b>	<b>0.45</b>	<b>J</b>	0.93	0.18	ug/m3			05/27/16 05:12	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/m3			05/27/16 05:12	1
3-Chloropropene	1.6	U	1.6	0.21	ug/m3			05/27/16 05:12	1
4-Ethyltoluene	0.98	U	0.98	0.22	ug/m3			05/27/16 05:12	1
<b>Acetone</b>	<b>6.0</b>	<b>J</b>	12	2.0	ug/m3			05/27/16 05:12	1
<b>Benzene</b>	<b>0.69</b>		0.64	0.13	ug/m3			05/27/16 05:12	1
Bromodichloromethane	1.3	U	1.3	0.20	ug/m3			05/27/16 05:12	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.19	ug/m3			05/27/16 05:12	1
Bromoform	2.1	U	2.1	0.58	ug/m3			05/27/16 05:12	1
Bromomethane	0.78	U	0.78	0.22	ug/m3			05/27/16 05:12	1
<b>Carbon disulfide</b>	<b>0.24</b>	<b>J</b>	1.6	0.13	ug/m3			05/27/16 05:12	1
<b>Carbon tetrachloride</b>	<b>0.41</b>	<b>J</b>	1.3	0.20	ug/m3			05/27/16 05:12	1
Chlorobenzene	0.92	U	0.92	0.23	ug/m3			05/27/16 05:12	1
Chloroethane	1.3	U	1.3	0.22	ug/m3			05/27/16 05:12	1
Chloroform	0.98	U	0.98	0.40	ug/m3			05/27/16 05:12	1
<b>Chloromethane</b>	<b>1.1</b>		1.0	0.19	ug/m3			05/27/16 05:12	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/27/16 05:12	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			05/27/16 05:12	1
Cyclohexane	0.69	U	0.69	0.13	ug/m3			05/27/16 05:12	1
Dibromochloromethane	1.7	U	1.7	0.37	ug/m3			05/27/16 05:12	1
<b>Dichlorodifluoromethane</b>	<b>2.4</b>	<b>J</b>	2.5	0.40	ug/m3			05/27/16 05:12	1
<b>Ethylbenzene</b>	<b>0.30</b>	<b>J</b>	0.87	0.14	ug/m3			05/27/16 05:12	1
Freon TF	1.5	U	1.5	0.57	ug/m3			05/27/16 05:12	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			05/27/16 05:12	1
<b>Isopropyl alcohol</b>	<b>3.4</b>	<b>J</b>	12	2.4	ug/m3			05/27/16 05:12	1
<b>m,p-Xylene</b>	<b>1.1</b>	<b>J</b>	2.2	0.31	ug/m3			05/27/16 05:12	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.23	ug/m3			05/27/16 05:12	1
<b>Methyl Ethyl Ketone</b>	<b>0.60</b>	<b>J</b>	1.5	0.15	ug/m3			05/27/16 05:12	1
methyl isobutyl ketone	2.0	U	2.0	0.20	ug/m3			05/27/16 05:12	1
Methyl tert-butyl ether	0.72	U	0.72	0.32	ug/m3			05/27/16 05:12	1
<b>Methylene Chloride</b>	<b>0.83</b>	<b>J</b>	1.7	0.63	ug/m3			05/27/16 05:12	1
<b>n-Heptane</b>	<b>0.25</b>	<b>J</b>	0.82	0.16	ug/m3			05/27/16 05:12	1
<b>n-Hexane</b>	<b>0.62</b>	<b>J</b>	0.70	0.19	ug/m3			05/27/16 05:12	1
<b>Styrene</b>	<b>0.20</b>	<b>J</b>	0.85	0.18	ug/m3			05/27/16 05:12	1
tert-Butyl alcohol	15	U	15	2.6	ug/m3			05/27/16 05:12	1
Tetrachloroethene	1.4	U	1.4	0.16	ug/m3			05/27/16 05:12	1
Tetrahydrofuran	15	U	15	4.1	ug/m3			05/27/16 05:12	1
<b>Toluene</b>	<b>2.1</b>		0.75	0.35	ug/m3			05/27/16 05:12	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.17	ug/m3			05/27/16 05:12	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.15	ug/m3			05/27/16 05:12	1
<b>Trichloroethene</b>	<b>0.23</b>	<b>J</b>	1.1	0.21	ug/m3			05/27/16 05:12	1
<b>Trichlorofluoromethane</b>	<b>1.2</b>		1.1	0.21	ug/m3			05/27/16 05:12	1
Vinyl chloride	0.51	U	0.51	0.082	ug/m3			05/27/16 05:12	1
<b>Xylene (total)</b>	<b>1.5</b>	<b>J</b>	3.0	0.16	ug/m3			05/27/16 05:12	1
<b>Xylene, o-</b>	<b>0.40</b>	<b>J</b>	0.87	0.16	ug/m3			05/27/16 05:12	1
Naphthalene	2.6	U	2.6	0.30	ug/m3			05/27/16 05:12	1

TestAmerica Burlington

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 200-105000/4**

**Matrix: Air**

**Analysis Batch: 105000**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.20	0.046	ppb v/v			05/26/16 13:45	1
1,1,1,2-Tetrachloroethane	0.20	U	0.20	0.044	ppb v/v			05/26/16 13:45	1
1,1,2-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			05/26/16 13:45	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			05/26/16 13:45	1
1,1-Dichloroethene	0.20	U	0.20	0.036	ppb v/v			05/26/16 13:45	1
1,2,4-Trichlorobenzene	0.119	J	0.50	0.068	ppb v/v			05/26/16 13:45	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.043	ppb v/v			05/26/16 13:45	1
1,2-Dibromoethane	0.20	U	0.20	0.039	ppb v/v			05/26/16 13:45	1
1,2-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/26/16 13:45	1
1,2-Dichloroethane	0.20	U	0.20	0.041	ppb v/v			05/26/16 13:45	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.035	ppb v/v			05/26/16 13:45	1
1,2-Dichloropropane	0.20	U	0.20	0.027	ppb v/v			05/26/16 13:45	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.038	ppb v/v			05/26/16 13:45	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.039	ppb v/v			05/26/16 13:45	1
1,3-Butadiene	0.20	U	0.20	0.089	ppb v/v			05/26/16 13:45	1
1,3-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/26/16 13:45	1
1,4-Dichlorobenzene	0.20	U	0.20	0.057	ppb v/v			05/26/16 13:45	1
1,4-Dioxane	5.0	U	5.0	0.56	ppb v/v			05/26/16 13:45	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.039	ppb v/v			05/26/16 13:45	1
2-Chlorotoluene	0.20	U	0.20	0.033	ppb v/v			05/26/16 13:45	1
3-Chloropropene	0.50	U	0.50	0.068	ppb v/v			05/26/16 13:45	1
4-Ethyltoluene	0.20	U	0.20	0.044	ppb v/v			05/26/16 13:45	1
Acetone	5.0	U	5.0	0.86	ppb v/v			05/26/16 13:45	1
Benzene	0.20	U	0.20	0.042	ppb v/v			05/26/16 13:45	1
Bromodichloromethane	0.20	U	0.20	0.030	ppb v/v			05/26/16 13:45	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.044	ppb v/v			05/26/16 13:45	1
Bromoform	0.20	U	0.20	0.056	ppb v/v			05/26/16 13:45	1
Bromomethane	0.20	U	0.20	0.056	ppb v/v			05/26/16 13:45	1
Carbon disulfide	0.50	U	0.50	0.043	ppb v/v			05/26/16 13:45	1
Carbon tetrachloride	0.20	U	0.20	0.032	ppb v/v			05/26/16 13:45	1
Chlorobenzene	0.20	U	0.20	0.049	ppb v/v			05/26/16 13:45	1
Chloroethane	0.50	U	0.50	0.085	ppb v/v			05/26/16 13:45	1
Chloroform	0.20	U	0.20	0.082	ppb v/v			05/26/16 13:45	1
Chloromethane	0.50	U	0.50	0.093	ppb v/v			05/26/16 13:45	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			05/26/16 13:45	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.023	ppb v/v			05/26/16 13:45	1
Cyclohexane	0.20	U	0.20	0.039	ppb v/v			05/26/16 13:45	1
Dibromochloromethane	0.20	U	0.20	0.044	ppb v/v			05/26/16 13:45	1
Dichlorodifluoromethane	0.50	U	0.50	0.080	ppb v/v			05/26/16 13:45	1
Ethylbenzene	0.20	U	0.20	0.033	ppb v/v			05/26/16 13:45	1
Freon TF	0.20	U	0.20	0.075	ppb v/v			05/26/16 13:45	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			05/26/16 13:45	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			05/26/16 13:45	1
m,p-Xylene	0.50	U	0.50	0.071	ppb v/v			05/26/16 13:45	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.057	ppb v/v			05/26/16 13:45	1
Methyl Ethyl Ketone	0.50	U	0.50	0.052	ppb v/v			05/26/16 13:45	1
methyl isobutyl ketone	0.50	U	0.50	0.050	ppb v/v			05/26/16 13:45	1
Methyl tert-butyl ether	0.20	U	0.20	0.089	ppb v/v			05/26/16 13:45	1

TestAmerica Burlington

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-105000/4**  
**Matrix: Air**  
**Analysis Batch: 105000**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methylene Chloride	0.50	U	0.50	0.18	ppb v/v			05/26/16 13:45	1
n-Heptane	0.20	U	0.20	0.040	ppb v/v			05/26/16 13:45	1
n-Hexane	0.20	U	0.20	0.054	ppb v/v			05/26/16 13:45	1
Styrene	0.20	U	0.20	0.043	ppb v/v			05/26/16 13:45	1
tert-Butyl alcohol	5.0	U	5.0	0.85	ppb v/v			05/26/16 13:45	1
Tetrachloroethene	0.20	U	0.20	0.023	ppb v/v			05/26/16 13:45	1
Tetrahydrofuran	5.0	U	5.0	1.4	ppb v/v			05/26/16 13:45	1
Toluene	0.20	U	0.20	0.093	ppb v/v			05/26/16 13:45	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.043	ppb v/v			05/26/16 13:45	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.034	ppb v/v			05/26/16 13:45	1
Trichloroethene	0.20	U	0.20	0.039	ppb v/v			05/26/16 13:45	1
Trichlorofluoromethane	0.20	U	0.20	0.038	ppb v/v			05/26/16 13:45	1
Vinyl chloride	0.20	U	0.20	0.032	ppb v/v			05/26/16 13:45	1
Xylene (total)	0.70	U	0.70	0.037	ppb v/v			05/26/16 13:45	1
Xylene, o-	0.20	U	0.20	0.037	ppb v/v			05/26/16 13:45	1
Naphthalene	0.0905	J	0.50	0.057	ppb v/v			05/26/16 13:45	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/m3			05/26/16 13:45	1
1,1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			05/26/16 13:45	1
1,1,2-Trichloroethane	1.1	U	1.1	0.21	ug/m3			05/26/16 13:45	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			05/26/16 13:45	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/26/16 13:45	1
1,2,4-Trichlorobenzene	0.882	J	3.7	0.50	ug/m3			05/26/16 13:45	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.21	ug/m3			05/26/16 13:45	1
1,2-Dibromoethane	1.5	U	1.5	0.30	ug/m3			05/26/16 13:45	1
1,2-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/26/16 13:45	1
1,2-Dichloroethane	0.81	U	0.81	0.17	ug/m3			05/26/16 13:45	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.14	ug/m3			05/26/16 13:45	1
1,2-Dichloropropane	0.92	U	0.92	0.12	ug/m3			05/26/16 13:45	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.27	ug/m3			05/26/16 13:45	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.19	ug/m3			05/26/16 13:45	1
1,3-Butadiene	0.44	U	0.44	0.20	ug/m3			05/26/16 13:45	1
1,3-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/26/16 13:45	1
1,4-Dichlorobenzene	1.2	U	1.2	0.34	ug/m3			05/26/16 13:45	1
1,4-Dioxane	18	U	18	2.0	ug/m3			05/26/16 13:45	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.18	ug/m3			05/26/16 13:45	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/m3			05/26/16 13:45	1
3-Chloropropene	1.6	U	1.6	0.21	ug/m3			05/26/16 13:45	1
4-Ethyltoluene	0.98	U	0.98	0.22	ug/m3			05/26/16 13:45	1
Acetone	12	U	12	2.0	ug/m3			05/26/16 13:45	1
Benzene	0.64	U	0.64	0.13	ug/m3			05/26/16 13:45	1
Bromodichloromethane	1.3	U	1.3	0.20	ug/m3			05/26/16 13:45	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.19	ug/m3			05/26/16 13:45	1
Bromoform	2.1	U	2.1	0.58	ug/m3			05/26/16 13:45	1
Bromomethane	0.78	U	0.78	0.22	ug/m3			05/26/16 13:45	1
Carbon disulfide	1.6	U	1.6	0.13	ug/m3			05/26/16 13:45	1
Carbon tetrachloride	1.3	U	1.3	0.20	ug/m3			05/26/16 13:45	1

TestAmerica Burlington

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-105000/4**  
**Matrix: Air**  
**Analysis Batch: 105000**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chlorobenzene	0.92	U	0.92	0.23	ug/m3			05/26/16 13:45	1
Chloroethane	1.3	U	1.3	0.22	ug/m3			05/26/16 13:45	1
Chloroform	0.98	U	0.98	0.40	ug/m3			05/26/16 13:45	1
Chloromethane	1.0	U	1.0	0.19	ug/m3			05/26/16 13:45	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/26/16 13:45	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			05/26/16 13:45	1
Cyclohexane	0.69	U	0.69	0.13	ug/m3			05/26/16 13:45	1
Dibromochloromethane	1.7	U	1.7	0.37	ug/m3			05/26/16 13:45	1
Dichlorodifluoromethane	2.5	U	2.5	0.40	ug/m3			05/26/16 13:45	1
Ethylbenzene	0.87	U	0.87	0.14	ug/m3			05/26/16 13:45	1
Freon TF	1.5	U	1.5	0.57	ug/m3			05/26/16 13:45	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			05/26/16 13:45	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			05/26/16 13:45	1
m,p-Xylene	2.2	U	2.2	0.31	ug/m3			05/26/16 13:45	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.23	ug/m3			05/26/16 13:45	1
Methyl Ethyl Ketone	1.5	U	1.5	0.15	ug/m3			05/26/16 13:45	1
methyl isobutyl ketone	2.0	U	2.0	0.20	ug/m3			05/26/16 13:45	1
Methyl tert-butyl ether	0.72	U	0.72	0.32	ug/m3			05/26/16 13:45	1
Methylene Chloride	1.7	U	1.7	0.63	ug/m3			05/26/16 13:45	1
n-Heptane	0.82	U	0.82	0.16	ug/m3			05/26/16 13:45	1
n-Hexane	0.70	U	0.70	0.19	ug/m3			05/26/16 13:45	1
Styrene	0.85	U	0.85	0.18	ug/m3			05/26/16 13:45	1
tert-Butyl alcohol	15	U	15	2.6	ug/m3			05/26/16 13:45	1
Tetrachloroethene	1.4	U	1.4	0.16	ug/m3			05/26/16 13:45	1
Tetrahydrofuran	15	U	15	4.1	ug/m3			05/26/16 13:45	1
Toluene	0.75	U	0.75	0.35	ug/m3			05/26/16 13:45	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.17	ug/m3			05/26/16 13:45	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.15	ug/m3			05/26/16 13:45	1
Trichloroethene	1.1	U	1.1	0.21	ug/m3			05/26/16 13:45	1
Trichlorofluoromethane	1.1	U	1.1	0.21	ug/m3			05/26/16 13:45	1
Vinyl chloride	0.51	U	0.51	0.082	ug/m3			05/26/16 13:45	1
Xylene (total)	3.0	U	3.0	0.16	ug/m3			05/26/16 13:45	1
Xylene, o-	0.87	U	0.87	0.16	ug/m3			05/26/16 13:45	1
Naphthalene	0.475	J	2.6	0.30	ug/m3			05/26/16 13:45	1

**Lab Sample ID: LCS 200-105000/3**  
**Matrix: Air**  
**Analysis Batch: 105000**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1,1-Trichloroethane	10.0	10.3		ppb v/v		103	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.4		ppb v/v		104	70 - 130
1,1,2-Trichloroethane	10.0	10.4		ppb v/v		104	70 - 130
1,1-Dichloroethane	10.0	10.1		ppb v/v		101	70 - 130
1,1-Dichloroethene	10.0	9.91		ppb v/v		99	70 - 130
1,2,4-Trichlorobenzene	10.0	11.1		ppb v/v		111	70 - 130
1,2,4-Trimethylbenzene	10.0	10.0		ppb v/v		100	70 - 130
1,2-Dibromoethane	10.0	10.7		ppb v/v		107	70 - 130

TestAmerica Burlington



# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-105000/3

Matrix: Air

Analysis Batch: 105000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	10.5		ppb v/v		105	70 - 130
1,2-Dichloroethane	10.0	10.3		ppb v/v		103	70 - 130
1,2-Dichloropropane	10.0	10.2		ppb v/v		102	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	11.2		ppb v/v		112	70 - 130
1,3,5-Trimethylbenzene	10.0	9.95		ppb v/v		100	70 - 130
1,3-Butadiene	10.0	9.54		ppb v/v		95	70 - 130
1,3-Dichlorobenzene	10.0	10.7		ppb v/v		107	70 - 130
1,4-Dichlorobenzene	10.0	10.3		ppb v/v		103	70 - 130
1,4-Dioxane	10.0	9.61		ppb v/v		96	70 - 130
2,2,4-Trimethylpentane	10.0	10.1		ppb v/v		101	70 - 130
2-Chlorotoluene	10.0	10.2		ppb v/v		102	70 - 130
3-Chloropropene	10.0	9.32		ppb v/v		93	70 - 130
4-Ethyltoluene	10.0	10.3		ppb v/v		103	70 - 130
Acetone	10.0	10.0		ppb v/v		100	70 - 130
Benzene	10.0	10.1		ppb v/v		101	70 - 130
Bromodichloromethane	10.0	10.8		ppb v/v		108	70 - 130
Bromoethene(Vinyl Bromide)	10.0	10.1		ppb v/v		101	70 - 130
Bromoform	10.0	12.2		ppb v/v		122	70 - 130
Bromomethane	10.0	10.1		ppb v/v		101	70 - 130
Carbon disulfide	10.0	11.6		ppb v/v		116	70 - 130
Carbon tetrachloride	10.0	10.3		ppb v/v		103	70 - 130
Chlorobenzene	10.0	10.1		ppb v/v		101	70 - 130
Chloroethane	10.0	9.64		ppb v/v		96	70 - 130
Chloroform	10.0	10.2		ppb v/v		102	70 - 130
Chloromethane	10.0	9.42		ppb v/v		94	70 - 130
cis-1,2-Dichloroethene	10.0	10.0		ppb v/v		100	70 - 130
cis-1,3-Dichloropropene	10.0	11.0		ppb v/v		110	70 - 130
Cyclohexane	10.0	10.4		ppb v/v		104	70 - 130
Dibromochloromethane	10.0	10.9		ppb v/v		109	70 - 130
Dichlorodifluoromethane	10.0	10.4		ppb v/v		104	70 - 130
Ethylbenzene	10.0	10.1		ppb v/v		101	70 - 130
Freon TF	10.0	10.1		ppb v/v		101	70 - 130
Hexachlorobutadiene	10.0	10.2		ppb v/v		103	70 - 130
Isopropyl alcohol	10.0	8.48		ppb v/v		85	70 - 130
m,p-Xylene	20.0	20.1		ppb v/v		100	70 - 130
Methyl Butyl Ketone (2-Hexanone)	10.0	10.7		ppb v/v		107	70 - 130
Methyl Ethyl Ketone	10.0	9.89		ppb v/v		99	70 - 130
methyl isobutyl ketone	10.0	11.0		ppb v/v		110	70 - 130
Methyl tert-butyl ether	10.0	10.0		ppb v/v		100	70 - 130
Methylene Chloride	10.0	9.81		ppb v/v		98	70 - 130
n-Heptane	10.0	10.3		ppb v/v		103	70 - 130
n-Hexane	10.0	10.8		ppb v/v		108	70 - 130
Styrene	10.0	10.7		ppb v/v		107	70 - 130
tert-Butyl alcohol	10.0	9.21		ppb v/v		92	70 - 130
Tetrachloroethene	10.0	9.96		ppb v/v		100	70 - 130
Tetrahydrofuran	10.0	9.98		ppb v/v		100	70 - 130
Toluene	10.0	10.1		ppb v/v		101	70 - 130

TestAmerica Burlington

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-105000/3

Matrix: Air

Analysis Batch: 105000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	10.0	10.7		ppb v/v		107	70 - 130
trans-1,3-Dichloropropene	10.0	11.2		ppb v/v		112	70 - 130
Trichloroethene	10.0	10.4		ppb v/v		104	70 - 130
Trichlorofluoromethane	10.0	9.99		ppb v/v		100	70 - 130
Vinyl chloride	10.0	9.70		ppb v/v		97	70 - 130
Xylene, o-	10.0	9.88		ppb v/v		99	70 - 130
Naphthalene	10.0	10.3		ppb v/v		103	70 - 130
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	55	56.3		ug/m3		103	70 - 130
1,1,1,2-Tetrachloroethane	69	71.5		ug/m3		104	70 - 130
1,1,2-Trichloroethane	55	56.5		ug/m3		104	70 - 130
1,1-Dichloroethane	40	40.7		ug/m3		101	70 - 130
1,1-Dichloroethene	40	39.3		ug/m3		99	70 - 130
1,2,4-Trichlorobenzene	74	82.5		ug/m3		111	70 - 130
1,2,4-Trimethylbenzene	49	49.3		ug/m3		100	70 - 130
1,2-Dibromoethane	77	82.0		ug/m3		107	70 - 130
1,2-Dichlorobenzene	60	63.0		ug/m3		105	70 - 130
1,2-Dichloroethane	40	41.5		ug/m3		103	70 - 130
1,2-Dichloropropane	46	47.2		ug/m3		102	70 - 130
1,2-Dichlorotetrafluoroethane	70	78.4		ug/m3		112	70 - 130
1,3,5-Trimethylbenzene	49	48.9		ug/m3		100	70 - 130
1,3-Butadiene	22	21.1		ug/m3		95	70 - 130
1,3-Dichlorobenzene	60	64.2		ug/m3		107	70 - 130
1,4-Dichlorobenzene	60	61.7		ug/m3		103	70 - 130
1,4-Dioxane	36	34.6		ug/m3		96	70 - 130
2,2,4-Trimethylpentane	47	47.3		ug/m3		101	70 - 130
2-Chlorotoluene	52	52.8		ug/m3		102	70 - 130
3-Chloropropene	31	29.2		ug/m3		93	70 - 130
4-Ethyltoluene	49	50.9		ug/m3		103	70 - 130
Acetone	24	23.8		ug/m3		100	70 - 130
Benzene	32	32.3		ug/m3		101	70 - 130
Bromodichloromethane	67	72.4		ug/m3		108	70 - 130
Bromoethene(Vinyl Bromide)	44	44.1		ug/m3		101	70 - 130
Bromoform	100	126		ug/m3		122	70 - 130
Bromomethane	39	39.1		ug/m3		101	70 - 130
Carbon disulfide	31	36.2		ug/m3		116	70 - 130
Carbon tetrachloride	63	65.0		ug/m3		103	70 - 130
Chlorobenzene	46	46.5		ug/m3		101	70 - 130
Chloroethane	26	25.4		ug/m3		96	70 - 130
Chloroform	49	49.9		ug/m3		102	70 - 130
Chloromethane	21	19.4		ug/m3		94	70 - 130
cis-1,2-Dichloroethene	40	39.8		ug/m3		100	70 - 130
cis-1,3-Dichloropropene	45	49.9		ug/m3		110	70 - 130
Cyclohexane	34	35.8		ug/m3		104	70 - 130
Dibromochloromethane	85	92.6		ug/m3		109	70 - 130
Dichlorodifluoromethane	49	51.4		ug/m3		104	70 - 130
Ethylbenzene	43	44.0		ug/m3		101	70 - 130

TestAmerica Burlington

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-105000/3**

**Matrix: Air**

**Analysis Batch: 105000**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Freon TF	77	77.8		ug/m3		101	70 - 130
Hexachlorobutadiene	110	109		ug/m3		103	70 - 130
Isopropyl alcohol	25	20.8		ug/m3		85	70 - 130
m,p-Xylene	87	87.1		ug/m3		100	70 - 130
Methyl Butyl Ketone	41	43.8		ug/m3		107	70 - 130
(2-Hexanone)							
Methyl Ethyl Ketone	29	29.2		ug/m3		99	70 - 130
methyl isobutyl ketone	41	44.9		ug/m3		110	70 - 130
Methyl tert-butyl ether	36	36.1		ug/m3		100	70 - 130
Methylene Chloride	35	34.1		ug/m3		98	70 - 130
n-Heptane	41	42.0		ug/m3		103	70 - 130
n-Hexane	35	38.0		ug/m3		108	70 - 130
Styrene	43	45.4		ug/m3		107	70 - 130
tert-Butyl alcohol	30	27.9		ug/m3		92	70 - 130
Tetrachloroethene	68	67.6		ug/m3		100	70 - 130
Tetrahydrofuran	29	29.4		ug/m3		100	70 - 130
Toluene	38	38.0		ug/m3		101	70 - 130
trans-1,2-Dichloroethene	40	42.6		ug/m3		107	70 - 130
trans-1,3-Dichloropropene	45	50.6		ug/m3		112	70 - 130
Trichloroethene	54	55.9		ug/m3		104	70 - 130
Trichlorofluoromethane	56	56.1		ug/m3		100	70 - 130
Vinyl chloride	26	24.8		ug/m3		97	70 - 130
Xylene, o-	43	42.9		ug/m3		99	70 - 130
Naphthalene	52	53.8		ug/m3		103	70 - 130

**Lab Sample ID: MB 200-105064/4**

**Matrix: Air**

**Analysis Batch: 105064**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.20	0.046	ppb v/v			05/27/16 13:33	1
1,1,1,2-Tetrachloroethane	0.20	U	0.20	0.044	ppb v/v			05/27/16 13:33	1
1,1,2-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			05/27/16 13:33	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			05/27/16 13:33	1
1,1-Dichloroethene	0.20	U	0.20	0.036	ppb v/v			05/27/16 13:33	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.068	ppb v/v			05/27/16 13:33	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.043	ppb v/v			05/27/16 13:33	1
1,2-Dibromoethane	0.20	U	0.20	0.039	ppb v/v			05/27/16 13:33	1
1,2-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/27/16 13:33	1
1,2-Dichloroethane	0.20	U	0.20	0.041	ppb v/v			05/27/16 13:33	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.035	ppb v/v			05/27/16 13:33	1
1,2-Dichloropropane	0.20	U	0.20	0.027	ppb v/v			05/27/16 13:33	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.038	ppb v/v			05/27/16 13:33	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.039	ppb v/v			05/27/16 13:33	1
1,3-Butadiene	0.20	U	0.20	0.089	ppb v/v			05/27/16 13:33	1
1,3-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/27/16 13:33	1
1,4-Dichlorobenzene	0.20	U	0.20	0.057	ppb v/v			05/27/16 13:33	1
1,4-Dioxane	5.0	U	5.0	0.56	ppb v/v			05/27/16 13:33	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.039	ppb v/v			05/27/16 13:33	1

TestAmerica Burlington

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-105064/4**

**Matrix: Air**

**Analysis Batch: 105064**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorotoluene	0.20	U	0.20	0.033	ppb v/v			05/27/16 13:33	1
3-Chloropropene	0.50	U	0.50	0.068	ppb v/v			05/27/16 13:33	1
4-Ethyltoluene	0.20	U	0.20	0.044	ppb v/v			05/27/16 13:33	1
Acetone	5.0	U	5.0	0.86	ppb v/v			05/27/16 13:33	1
Benzene	0.20	U	0.20	0.042	ppb v/v			05/27/16 13:33	1
Bromodichloromethane	0.20	U	0.20	0.030	ppb v/v			05/27/16 13:33	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.044	ppb v/v			05/27/16 13:33	1
Bromoform	0.20	U	0.20	0.056	ppb v/v			05/27/16 13:33	1
Bromomethane	0.20	U	0.20	0.056	ppb v/v			05/27/16 13:33	1
Carbon disulfide	0.50	U	0.50	0.043	ppb v/v			05/27/16 13:33	1
Carbon tetrachloride	0.20	U	0.20	0.032	ppb v/v			05/27/16 13:33	1
Chlorobenzene	0.20	U	0.20	0.049	ppb v/v			05/27/16 13:33	1
Chloroethane	0.50	U	0.50	0.085	ppb v/v			05/27/16 13:33	1
Chloroform	0.20	U	0.20	0.082	ppb v/v			05/27/16 13:33	1
Chloromethane	0.50	U	0.50	0.093	ppb v/v			05/27/16 13:33	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			05/27/16 13:33	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.023	ppb v/v			05/27/16 13:33	1
Cyclohexane	0.20	U	0.20	0.039	ppb v/v			05/27/16 13:33	1
Dibromochloromethane	0.20	U	0.20	0.044	ppb v/v			05/27/16 13:33	1
Dichlorodifluoromethane	0.50	U	0.50	0.080	ppb v/v			05/27/16 13:33	1
Ethylbenzene	0.20	U	0.20	0.033	ppb v/v			05/27/16 13:33	1
Freon TF	0.20	U	0.20	0.075	ppb v/v			05/27/16 13:33	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			05/27/16 13:33	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			05/27/16 13:33	1
m,p-Xylene	0.50	U	0.50	0.071	ppb v/v			05/27/16 13:33	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.057	ppb v/v			05/27/16 13:33	1
Methyl Ethyl Ketone	0.50	U	0.50	0.052	ppb v/v			05/27/16 13:33	1
methyl isobutyl ketone	0.50	U	0.50	0.050	ppb v/v			05/27/16 13:33	1
Methyl tert-butyl ether	0.20	U	0.20	0.089	ppb v/v			05/27/16 13:33	1
Methylene Chloride	0.50	U	0.50	0.18	ppb v/v			05/27/16 13:33	1
n-Heptane	0.20	U	0.20	0.040	ppb v/v			05/27/16 13:33	1
n-Hexane	0.20	U	0.20	0.054	ppb v/v			05/27/16 13:33	1
Styrene	0.20	U	0.20	0.043	ppb v/v			05/27/16 13:33	1
tert-Butyl alcohol	5.0	U	5.0	0.85	ppb v/v			05/27/16 13:33	1
Tetrachloroethene	0.20	U	0.20	0.023	ppb v/v			05/27/16 13:33	1
Tetrahydrofuran	5.0	U	5.0	1.4	ppb v/v			05/27/16 13:33	1
Toluene	0.20	U	0.20	0.093	ppb v/v			05/27/16 13:33	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.043	ppb v/v			05/27/16 13:33	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.034	ppb v/v			05/27/16 13:33	1
Trichloroethene	0.20	U	0.20	0.039	ppb v/v			05/27/16 13:33	1
Trichlorofluoromethane	0.20	U	0.20	0.038	ppb v/v			05/27/16 13:33	1
Vinyl chloride	0.20	U	0.20	0.032	ppb v/v			05/27/16 13:33	1
Xylene (total)	0.70	U	0.70	0.037	ppb v/v			05/27/16 13:33	1
Xylene, o-	0.20	U	0.20	0.037	ppb v/v			05/27/16 13:33	1
Naphthalene	0.50	U	0.50	0.057	ppb v/v			05/27/16 13:33	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/m3			05/27/16 13:33	1

TestAmerica Burlington

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-105064/4**  
**Matrix: Air**  
**Analysis Batch: 105064**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			05/27/16 13:33	1
1,1,2-Trichloroethane	1.1	U	1.1	0.21	ug/m3			05/27/16 13:33	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			05/27/16 13:33	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/27/16 13:33	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.50	ug/m3			05/27/16 13:33	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.21	ug/m3			05/27/16 13:33	1
1,2-Dibromoethane	1.5	U	1.5	0.30	ug/m3			05/27/16 13:33	1
1,2-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/27/16 13:33	1
1,2-Dichloroethane	0.81	U	0.81	0.17	ug/m3			05/27/16 13:33	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.14	ug/m3			05/27/16 13:33	1
1,2-Dichloropropane	0.92	U	0.92	0.12	ug/m3			05/27/16 13:33	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.27	ug/m3			05/27/16 13:33	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.19	ug/m3			05/27/16 13:33	1
1,3-Butadiene	0.44	U	0.44	0.20	ug/m3			05/27/16 13:33	1
1,3-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/27/16 13:33	1
1,4-Dichlorobenzene	1.2	U	1.2	0.34	ug/m3			05/27/16 13:33	1
1,4-Dioxane	18	U	18	2.0	ug/m3			05/27/16 13:33	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.18	ug/m3			05/27/16 13:33	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/m3			05/27/16 13:33	1
3-Chloropropene	1.6	U	1.6	0.21	ug/m3			05/27/16 13:33	1
4-Ethyltoluene	0.98	U	0.98	0.22	ug/m3			05/27/16 13:33	1
Acetone	12	U	12	2.0	ug/m3			05/27/16 13:33	1
Benzene	0.64	U	0.64	0.13	ug/m3			05/27/16 13:33	1
Bromodichloromethane	1.3	U	1.3	0.20	ug/m3			05/27/16 13:33	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.19	ug/m3			05/27/16 13:33	1
Bromoform	2.1	U	2.1	0.58	ug/m3			05/27/16 13:33	1
Bromomethane	0.78	U	0.78	0.22	ug/m3			05/27/16 13:33	1
Carbon disulfide	1.6	U	1.6	0.13	ug/m3			05/27/16 13:33	1
Carbon tetrachloride	1.3	U	1.3	0.20	ug/m3			05/27/16 13:33	1
Chlorobenzene	0.92	U	0.92	0.23	ug/m3			05/27/16 13:33	1
Chloroethane	1.3	U	1.3	0.22	ug/m3			05/27/16 13:33	1
Chloroform	0.98	U	0.98	0.40	ug/m3			05/27/16 13:33	1
Chloromethane	1.0	U	1.0	0.19	ug/m3			05/27/16 13:33	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/27/16 13:33	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			05/27/16 13:33	1
Cyclohexane	0.69	U	0.69	0.13	ug/m3			05/27/16 13:33	1
Dibromochloromethane	1.7	U	1.7	0.37	ug/m3			05/27/16 13:33	1
Dichlorodifluoromethane	2.5	U	2.5	0.40	ug/m3			05/27/16 13:33	1
Ethylbenzene	0.87	U	0.87	0.14	ug/m3			05/27/16 13:33	1
Freon TF	1.5	U	1.5	0.57	ug/m3			05/27/16 13:33	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			05/27/16 13:33	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			05/27/16 13:33	1
m,p-Xylene	2.2	U	2.2	0.31	ug/m3			05/27/16 13:33	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.23	ug/m3			05/27/16 13:33	1
Methyl Ethyl Ketone	1.5	U	1.5	0.15	ug/m3			05/27/16 13:33	1
methyl isobutyl ketone	2.0	U	2.0	0.20	ug/m3			05/27/16 13:33	1
Methyl tert-butyl ether	0.72	U	0.72	0.32	ug/m3			05/27/16 13:33	1
Methylene Chloride	1.7	U	1.7	0.63	ug/m3			05/27/16 13:33	1

TestAmerica Burlington

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-105064/4**  
**Matrix: Air**  
**Analysis Batch: 105064**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
n-Heptane	0.82	U	0.82	0.16	ug/m3			05/27/16 13:33	1
n-Hexane	0.70	U	0.70	0.19	ug/m3			05/27/16 13:33	1
Styrene	0.85	U	0.85	0.18	ug/m3			05/27/16 13:33	1
tert-Butyl alcohol	15	U	15	2.6	ug/m3			05/27/16 13:33	1
Tetrachloroethene	1.4	U	1.4	0.16	ug/m3			05/27/16 13:33	1
Tetrahydrofuran	15	U	15	4.1	ug/m3			05/27/16 13:33	1
Toluene	0.75	U	0.75	0.35	ug/m3			05/27/16 13:33	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.17	ug/m3			05/27/16 13:33	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.15	ug/m3			05/27/16 13:33	1
Trichloroethene	1.1	U	1.1	0.21	ug/m3			05/27/16 13:33	1
Trichlorofluoromethane	1.1	U	1.1	0.21	ug/m3			05/27/16 13:33	1
Vinyl chloride	0.51	U	0.51	0.082	ug/m3			05/27/16 13:33	1
Xylene (total)	3.0	U	3.0	0.16	ug/m3			05/27/16 13:33	1
Xylene, o-	0.87	U	0.87	0.16	ug/m3			05/27/16 13:33	1
Naphthalene	2.6	U	2.6	0.30	ug/m3			05/27/16 13:33	1

**Lab Sample ID: LCS 200-105064/3**  
**Matrix: Air**  
**Analysis Batch: 105064**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	10.0	10.1		ppb v/v		101	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.0		ppb v/v		100	70 - 130
1,1,2-Trichloroethane	10.0	9.88		ppb v/v		99	70 - 130
1,1-Dichloroethane	10.0	9.95		ppb v/v		99	70 - 130
1,1-Dichloroethene	10.0	9.14		ppb v/v		91	70 - 130
1,2,4-Trichlorobenzene	10.0	9.92		ppb v/v		99	70 - 130
1,2,4-Trimethylbenzene	10.0	9.58		ppb v/v		96	70 - 130
1,2-Dibromoethane	10.0	10.1		ppb v/v		101	70 - 130
1,2-Dichlorobenzene	10.0	10.0		ppb v/v		100	70 - 130
1,2-Dichloroethane	10.0	10.3		ppb v/v		103	70 - 130
1,2-Dichloropropane	10.0	9.92		ppb v/v		99	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	8.66		ppb v/v		87	70 - 130
1,3,5-Trimethylbenzene	10.0	9.48		ppb v/v		95	70 - 130
1,3-Butadiene	10.0	8.56		ppb v/v		86	70 - 130
1,3-Dichlorobenzene	10.0	10.1		ppb v/v		101	70 - 130
1,4-Dichlorobenzene	10.0	10.2		ppb v/v		102	70 - 130
1,4-Dioxane	10.0	8.76		ppb v/v		88	70 - 130
2,2,4-Trimethylpentane	10.0	9.76		ppb v/v		98	70 - 130
2-Chlorotoluene	10.0	9.65		ppb v/v		97	70 - 130
3-Chloropropene	10.0	8.48		ppb v/v		85	70 - 130
4-Ethyltoluene	10.0	9.94		ppb v/v		99	70 - 130
Acetone	10.0	11.7		ppb v/v		117	70 - 130
Benzene	10.0	9.65		ppb v/v		97	70 - 130
Bromodichloromethane	10.0	9.95		ppb v/v		100	70 - 130
Bromoethene(Vinyl Bromide)	10.0	8.98		ppb v/v		90	70 - 130
Bromoform	10.0	10.7		ppb v/v		107	70 - 130
Bromomethane	10.0	8.90		ppb v/v		89	70 - 130

TestAmerica Burlington

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-105064/3

Matrix: Air

Analysis Batch: 105064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	10.0	10.9		ppb v/v		109	70 - 130
Carbon tetrachloride	10.0	7.74		ppb v/v		77	70 - 130
Chlorobenzene	10.0	9.67		ppb v/v		97	70 - 130
Chloroethane	10.0	8.82		ppb v/v		88	70 - 130
Chloroform	10.0	9.97		ppb v/v		100	70 - 130
Chloromethane	10.0	7.31		ppb v/v		73	70 - 130
cis-1,2-Dichloroethene	10.0	9.52		ppb v/v		95	70 - 130
cis-1,3-Dichloropropene	10.0	10.1		ppb v/v		101	70 - 130
Cyclohexane	10.0	9.84		ppb v/v		98	70 - 130
Dibromochloromethane	10.0	9.88		ppb v/v		99	70 - 130
Dichlorodifluoromethane	10.0	7.78		ppb v/v		78	70 - 130
Ethylbenzene	10.0	9.61		ppb v/v		96	70 - 130
Freon TF	10.0	9.73		ppb v/v		97	70 - 130
Hexachlorobutadiene	10.0	9.17		ppb v/v		92	70 - 130
Isopropyl alcohol	10.0	8.80		ppb v/v		88	70 - 130
m,p-Xylene	20.0	19.3		ppb v/v		96	70 - 130
Methyl Butyl Ketone	10.0	9.66		ppb v/v		97	70 - 130
(2-Hexanone)							
Methyl Ethyl Ketone	10.0	9.76		ppb v/v		98	70 - 130
methyl isobutyl ketone	10.0	9.72		ppb v/v		97	70 - 130
Methyl tert-butyl ether	10.0	9.63		ppb v/v		96	70 - 130
Methylene Chloride	10.0	9.85		ppb v/v		98	70 - 130
n-Heptane	10.0	9.66		ppb v/v		97	70 - 130
n-Hexane	10.0	10.1		ppb v/v		102	70 - 130
Styrene	10.0	9.91		ppb v/v		99	70 - 130
tert-Butyl alcohol	10.0	9.02		ppb v/v		90	70 - 130
Tetrachloroethene	10.0	9.40		ppb v/v		94	70 - 130
Tetrahydrofuran	10.0	10.6		ppb v/v		106	70 - 130
Toluene	10.0	9.68		ppb v/v		97	70 - 130
trans-1,2-Dichloroethene	10.0	10.4		ppb v/v		104	70 - 130
trans-1,3-Dichloropropene	10.0	10.4		ppb v/v		104	70 - 130
Trichloroethene	10.0	9.75		ppb v/v		97	70 - 130
Trichlorofluoromethane	10.0	9.43		ppb v/v		94	70 - 130
Vinyl chloride	10.0	8.40		ppb v/v		84	70 - 130
Xylene, o-	10.0	9.40		ppb v/v		94	70 - 130
Naphthalene	10.0	9.70		ppb v/v		97	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	55	55.1		ug/m3		101	70 - 130
1,1,2,2-Tetrachloroethane	69	68.6		ug/m3		100	70 - 130
1,1,2-Trichloroethane	55	53.9		ug/m3		99	70 - 130
1,1-Dichloroethane	40	40.3		ug/m3		99	70 - 130
1,1-Dichloroethene	40	36.3		ug/m3		91	70 - 130
1,2,4-Trichlorobenzene	74	73.6		ug/m3		99	70 - 130
1,2,4-Trimethylbenzene	49	47.1		ug/m3		96	70 - 130
1,2-Dibromoethane	77	77.5		ug/m3		101	70 - 130
1,2-Dichlorobenzene	60	60.4		ug/m3		100	70 - 130
1,2-Dichloroethane	40	41.6		ug/m3		103	70 - 130

TestAmerica Burlington

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-105064/3

Matrix: Air

Analysis Batch: 105064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	46	45.8		ug/m3		99	70 - 130
1,2-Dichlorotetrafluoroethane	70	60.5		ug/m3		87	70 - 130
1,3,5-Trimethylbenzene	49	46.6		ug/m3		95	70 - 130
1,3-Butadiene	22	18.9		ug/m3		86	70 - 130
1,3-Dichlorobenzene	60	60.6		ug/m3		101	70 - 130
1,4-Dichlorobenzene	60	61.4		ug/m3		102	70 - 130
1,4-Dioxane	36	31.6		ug/m3		88	70 - 130
2,2,4-Trimethylpentane	47	45.6		ug/m3		98	70 - 130
2-Chlorotoluene	52	50.0		ug/m3		97	70 - 130
3-Chloropropene	31	26.5		ug/m3		85	70 - 130
4-Ethyltoluene	49	48.9		ug/m3		99	70 - 130
Acetone	24	27.9		ug/m3		117	70 - 130
Benzene	32	30.8		ug/m3		97	70 - 130
Bromodichloromethane	67	66.7		ug/m3		100	70 - 130
Bromoethene(Vinyl Bromide)	44	39.3		ug/m3		90	70 - 130
Bromoform	100	110		ug/m3		107	70 - 130
Bromomethane	39	34.6		ug/m3		89	70 - 130
Carbon disulfide	31	33.8		ug/m3		109	70 - 130
Carbon tetrachloride	63	48.7		ug/m3		77	70 - 130
Chlorobenzene	46	44.5		ug/m3		97	70 - 130
Chloroethane	26	23.3		ug/m3		88	70 - 130
Chloroform	49	48.7		ug/m3		100	70 - 130
Chloromethane	21	15.1		ug/m3		73	70 - 130
cis-1,2-Dichloroethene	40	37.7		ug/m3		95	70 - 130
cis-1,3-Dichloropropene	45	45.8		ug/m3		101	70 - 130
Cyclohexane	34	33.9		ug/m3		98	70 - 130
Dibromochloromethane	85	84.2		ug/m3		99	70 - 130
Dichlorodifluoromethane	49	38.5		ug/m3		78	70 - 130
Ethylbenzene	43	41.7		ug/m3		96	70 - 130
Freon TF	77	74.6		ug/m3		97	70 - 130
Hexachlorobutadiene	110	97.8		ug/m3		92	70 - 130
Isopropyl alcohol	25	21.6		ug/m3		88	70 - 130
m,p-Xylene	87	83.6		ug/m3		96	70 - 130
Methyl Butyl Ketone (2-Hexanone)	41	39.6		ug/m3		97	70 - 130
Methyl Ethyl Ketone	29	28.8		ug/m3		98	70 - 130
methyl isobutyl ketone	41	39.8		ug/m3		97	70 - 130
Methyl tert-butyl ether	36	34.7		ug/m3		96	70 - 130
Methylene Chloride	35	34.2		ug/m3		98	70 - 130
n-Heptane	41	39.6		ug/m3		97	70 - 130
n-Hexane	35	35.8		ug/m3		102	70 - 130
Styrene	43	42.2		ug/m3		99	70 - 130
tert-Butyl alcohol	30	27.3		ug/m3		90	70 - 130
Tetrachloroethene	68	63.8		ug/m3		94	70 - 130
Tetrahydrofuran	29	31.1		ug/m3		106	70 - 130
Toluene	38	36.5		ug/m3		97	70 - 130
trans-1,2-Dichloroethene	40	41.2		ug/m3		104	70 - 130
trans-1,3-Dichloropropene	45	47.1		ug/m3		104	70 - 130

TestAmerica Burlington



# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-105064/3**  
**Matrix: Air**  
**Analysis Batch: 105064**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	54	52.4		ug/m3		97	70 - 130
Trichlorofluoromethane	56	53.0		ug/m3		94	70 - 130
Vinyl chloride	26	21.5		ug/m3		84	70 - 130
Xylene, o-	43	40.8		ug/m3		94	70 - 130
Naphthalene	52	50.9		ug/m3		97	70 - 130

**Lab Sample ID: MB 200-105066/5**  
**Matrix: Air**  
**Analysis Batch: 105066**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.20	0.046	ppb v/v			05/27/16 13:57	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.044	ppb v/v			05/27/16 13:57	1
1,1,2-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			05/27/16 13:57	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			05/27/16 13:57	1
1,1-Dichloroethene	0.20	U	0.20	0.036	ppb v/v			05/27/16 13:57	1
1,2,4-Trichlorobenzene	0.112	J	0.50	0.068	ppb v/v			05/27/16 13:57	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.043	ppb v/v			05/27/16 13:57	1
1,2-Dibromoethane	0.20	U	0.20	0.039	ppb v/v			05/27/16 13:57	1
1,2-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/27/16 13:57	1
1,2-Dichloroethane	0.20	U	0.20	0.041	ppb v/v			05/27/16 13:57	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.035	ppb v/v			05/27/16 13:57	1
1,2-Dichloropropane	0.20	U	0.20	0.027	ppb v/v			05/27/16 13:57	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.038	ppb v/v			05/27/16 13:57	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.039	ppb v/v			05/27/16 13:57	1
1,3-Butadiene	0.20	U	0.20	0.089	ppb v/v			05/27/16 13:57	1
1,3-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			05/27/16 13:57	1
1,4-Dichlorobenzene	0.20	U	0.20	0.057	ppb v/v			05/27/16 13:57	1
1,4-Dioxane	5.0	U	5.0	0.56	ppb v/v			05/27/16 13:57	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.039	ppb v/v			05/27/16 13:57	1
2-Chlorotoluene	0.20	U	0.20	0.033	ppb v/v			05/27/16 13:57	1
3-Chloropropene	0.50	U	0.50	0.068	ppb v/v			05/27/16 13:57	1
4-Ethyltoluene	0.20	U	0.20	0.044	ppb v/v			05/27/16 13:57	1
Acetone	5.0	U	5.0	0.86	ppb v/v			05/27/16 13:57	1
Benzene	0.20	U	0.20	0.042	ppb v/v			05/27/16 13:57	1
Bromodichloromethane	0.20	U	0.20	0.030	ppb v/v			05/27/16 13:57	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.044	ppb v/v			05/27/16 13:57	1
Bromoform	0.20	U	0.20	0.056	ppb v/v			05/27/16 13:57	1
Bromomethane	0.20	U	0.20	0.056	ppb v/v			05/27/16 13:57	1
Carbon disulfide	0.50	U	0.50	0.043	ppb v/v			05/27/16 13:57	1
Carbon tetrachloride	0.20	U	0.20	0.032	ppb v/v			05/27/16 13:57	1
Chlorobenzene	0.20	U	0.20	0.049	ppb v/v			05/27/16 13:57	1
Chloroethane	0.50	U	0.50	0.085	ppb v/v			05/27/16 13:57	1
Chloroform	0.20	U	0.20	0.082	ppb v/v			05/27/16 13:57	1
Chloromethane	0.50	U	0.50	0.093	ppb v/v			05/27/16 13:57	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			05/27/16 13:57	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.023	ppb v/v			05/27/16 13:57	1
Cyclohexane	0.20	U	0.20	0.039	ppb v/v			05/27/16 13:57	1

TestAmerica Burlington

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-105066/5

Matrix: Air

Analysis Batch: 105066

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dibromochloromethane	0.20	U	0.20	0.044	ppb v/v			05/27/16 13:57	1
Dichlorodifluoromethane	0.50	U	0.50	0.080	ppb v/v			05/27/16 13:57	1
Ethylbenzene	0.20	U	0.20	0.033	ppb v/v			05/27/16 13:57	1
Freon TF	0.20	U	0.20	0.075	ppb v/v			05/27/16 13:57	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			05/27/16 13:57	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			05/27/16 13:57	1
m,p-Xylene	0.50	U	0.50	0.071	ppb v/v			05/27/16 13:57	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.057	ppb v/v			05/27/16 13:57	1
Methyl Ethyl Ketone	0.50	U	0.50	0.052	ppb v/v			05/27/16 13:57	1
methyl isobutyl ketone	0.50	U	0.50	0.050	ppb v/v			05/27/16 13:57	1
Methyl tert-butyl ether	0.20	U	0.20	0.089	ppb v/v			05/27/16 13:57	1
Methylene Chloride	0.50	U	0.50	0.18	ppb v/v			05/27/16 13:57	1
n-Heptane	0.20	U	0.20	0.040	ppb v/v			05/27/16 13:57	1
n-Hexane	0.20	U	0.20	0.054	ppb v/v			05/27/16 13:57	1
Styrene	0.20	U	0.20	0.043	ppb v/v			05/27/16 13:57	1
tert-Butyl alcohol	5.0	U	5.0	0.85	ppb v/v			05/27/16 13:57	1
Tetrachloroethene	0.20	U	0.20	0.023	ppb v/v			05/27/16 13:57	1
Tetrahydrofuran	5.0	U	5.0	1.4	ppb v/v			05/27/16 13:57	1
Toluene	0.20	U	0.20	0.093	ppb v/v			05/27/16 13:57	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.043	ppb v/v			05/27/16 13:57	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.034	ppb v/v			05/27/16 13:57	1
Trichloroethene	0.20	U	0.20	0.039	ppb v/v			05/27/16 13:57	1
Trichlorofluoromethane	0.20	U	0.20	0.038	ppb v/v			05/27/16 13:57	1
Vinyl chloride	0.20	U	0.20	0.032	ppb v/v			05/27/16 13:57	1
Xylene (total)	0.70	U	0.70	0.037	ppb v/v			05/27/16 13:57	1
Xylene, o-	0.20	U	0.20	0.037	ppb v/v			05/27/16 13:57	1
Naphthalene	0.0785	J	0.50	0.057	ppb v/v			05/27/16 13:57	1
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/m3			05/27/16 13:57	1
1,1,1,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			05/27/16 13:57	1
1,1,1,2-Trichloroethane	1.1	U	1.1	0.21	ug/m3			05/27/16 13:57	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			05/27/16 13:57	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/27/16 13:57	1
1,2,4-Trichlorobenzene	0.833	J	3.7	0.50	ug/m3			05/27/16 13:57	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.21	ug/m3			05/27/16 13:57	1
1,2-Dibromoethane	1.5	U	1.5	0.30	ug/m3			05/27/16 13:57	1
1,2-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/27/16 13:57	1
1,2-Dichloroethane	0.81	U	0.81	0.17	ug/m3			05/27/16 13:57	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.14	ug/m3			05/27/16 13:57	1
1,2-Dichloropropane	0.92	U	0.92	0.12	ug/m3			05/27/16 13:57	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.27	ug/m3			05/27/16 13:57	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.19	ug/m3			05/27/16 13:57	1
1,3-Butadiene	0.44	U	0.44	0.20	ug/m3			05/27/16 13:57	1
1,3-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			05/27/16 13:57	1
1,4-Dichlorobenzene	1.2	U	1.2	0.34	ug/m3			05/27/16 13:57	1
1,4-Dioxane	18	U	18	2.0	ug/m3			05/27/16 13:57	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.18	ug/m3			05/27/16 13:57	1

TestAmerica Burlington

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-105066/5**

**Matrix: Air**

**Analysis Batch: 105066**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorotoluene	1.0	U	1.0	0.17	ug/m3			05/27/16 13:57	1
3-Chloropropene	1.6	U	1.6	0.21	ug/m3			05/27/16 13:57	1
4-Ethyltoluene	0.98	U	0.98	0.22	ug/m3			05/27/16 13:57	1
Acetone	12	U	12	2.0	ug/m3			05/27/16 13:57	1
Benzene	0.64	U	0.64	0.13	ug/m3			05/27/16 13:57	1
Bromodichloromethane	1.3	U	1.3	0.20	ug/m3			05/27/16 13:57	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.19	ug/m3			05/27/16 13:57	1
Bromoform	2.1	U	2.1	0.58	ug/m3			05/27/16 13:57	1
Bromomethane	0.78	U	0.78	0.22	ug/m3			05/27/16 13:57	1
Carbon disulfide	1.6	U	1.6	0.13	ug/m3			05/27/16 13:57	1
Carbon tetrachloride	1.3	U	1.3	0.20	ug/m3			05/27/16 13:57	1
Chlorobenzene	0.92	U	0.92	0.23	ug/m3			05/27/16 13:57	1
Chloroethane	1.3	U	1.3	0.22	ug/m3			05/27/16 13:57	1
Chloroform	0.98	U	0.98	0.40	ug/m3			05/27/16 13:57	1
Chloromethane	1.0	U	1.0	0.19	ug/m3			05/27/16 13:57	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/27/16 13:57	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			05/27/16 13:57	1
Cyclohexane	0.69	U	0.69	0.13	ug/m3			05/27/16 13:57	1
Dibromochloromethane	1.7	U	1.7	0.37	ug/m3			05/27/16 13:57	1
Dichlorodifluoromethane	2.5	U	2.5	0.40	ug/m3			05/27/16 13:57	1
Ethylbenzene	0.87	U	0.87	0.14	ug/m3			05/27/16 13:57	1
Freon TF	1.5	U	1.5	0.57	ug/m3			05/27/16 13:57	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			05/27/16 13:57	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			05/27/16 13:57	1
m,p-Xylene	2.2	U	2.2	0.31	ug/m3			05/27/16 13:57	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.23	ug/m3			05/27/16 13:57	1
Methyl Ethyl Ketone	1.5	U	1.5	0.15	ug/m3			05/27/16 13:57	1
methyl isobutyl ketone	2.0	U	2.0	0.20	ug/m3			05/27/16 13:57	1
Methyl tert-butyl ether	0.72	U	0.72	0.32	ug/m3			05/27/16 13:57	1
Methylene Chloride	1.7	U	1.7	0.63	ug/m3			05/27/16 13:57	1
n-Heptane	0.82	U	0.82	0.16	ug/m3			05/27/16 13:57	1
n-Hexane	0.70	U	0.70	0.19	ug/m3			05/27/16 13:57	1
Styrene	0.85	U	0.85	0.18	ug/m3			05/27/16 13:57	1
tert-Butyl alcohol	15	U	15	2.6	ug/m3			05/27/16 13:57	1
Tetrachloroethene	1.4	U	1.4	0.16	ug/m3			05/27/16 13:57	1
Tetrahydrofuran	15	U	15	4.1	ug/m3			05/27/16 13:57	1
Toluene	0.75	U	0.75	0.35	ug/m3			05/27/16 13:57	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.17	ug/m3			05/27/16 13:57	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.15	ug/m3			05/27/16 13:57	1
Trichloroethene	1.1	U	1.1	0.21	ug/m3			05/27/16 13:57	1
Trichlorofluoromethane	1.1	U	1.1	0.21	ug/m3			05/27/16 13:57	1
Vinyl chloride	0.51	U	0.51	0.082	ug/m3			05/27/16 13:57	1
Xylene (total)	3.0	U	3.0	0.16	ug/m3			05/27/16 13:57	1
Xylene, o-	0.87	U	0.87	0.16	ug/m3			05/27/16 13:57	1
Naphthalene	0.411	J	2.6	0.30	ug/m3			05/27/16 13:57	1

TestAmerica Burlington

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-105066/4**

**Matrix: Air**

**Analysis Batch: 105066**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.9		ppb v/v		109	70 - 130
1,1,1,2-Tetrachloroethane	10.0	10.5		ppb v/v		105	70 - 130
1,1,2-Trichloroethane	10.0	10.5		ppb v/v		105	70 - 130
1,1-Dichloroethane	10.0	10.1		ppb v/v		101	70 - 130
1,1-Dichloroethene	10.0	9.84		ppb v/v		98	70 - 130
1,2,4-Trichlorobenzene	10.0	11.2		ppb v/v		112	70 - 130
1,2,4-Trimethylbenzene	10.0	9.92		ppb v/v		99	70 - 130
1,2-Dibromoethane	10.0	10.8		ppb v/v		108	70 - 130
1,2-Dichlorobenzene	10.0	10.4		ppb v/v		104	70 - 130
1,2-Dichloroethane	10.0	10.8		ppb v/v		108	70 - 130
1,2-Dichloropropane	10.0	10.8		ppb v/v		108	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	11.3		ppb v/v		113	70 - 130
1,3,5-Trimethylbenzene	10.0	9.86		ppb v/v		99	70 - 130
1,3-Butadiene	10.0	9.67		ppb v/v		97	70 - 130
1,3-Dichlorobenzene	10.0	10.7		ppb v/v		107	70 - 130
1,4-Dichlorobenzene	10.0	10.3		ppb v/v		103	70 - 130
1,4-Dioxane	10.0	10.0		ppb v/v		100	70 - 130
2,2,4-Trimethylpentane	10.0	10.8		ppb v/v		108	70 - 130
2-Chlorotoluene	10.0	10.3		ppb v/v		103	70 - 130
3-Chloropropene	10.0	9.63		ppb v/v		96	70 - 130
4-Ethyltoluene	10.0	10.3		ppb v/v		103	70 - 130
Acetone	10.0	10.1		ppb v/v		101	70 - 130
Benzene	10.0	10.6		ppb v/v		106	70 - 130
Bromodichloromethane	10.0	11.3		ppb v/v		113	70 - 130
Bromoethene(Vinyl Bromide)	10.0	9.98		ppb v/v		100	70 - 130
Bromoform	10.0	12.2		ppb v/v		122	70 - 130
Bromomethane	10.0	10.1		ppb v/v		101	70 - 130
Carbon disulfide	10.0	11.7		ppb v/v		117	70 - 130
Carbon tetrachloride	10.0	10.7		ppb v/v		107	70 - 130
Chlorobenzene	10.0	10.1		ppb v/v		101	70 - 130
Chloroethane	10.0	9.75		ppb v/v		98	70 - 130
Chloroform	10.0	10.2		ppb v/v		102	70 - 130
Chloromethane	10.0	9.51		ppb v/v		95	70 - 130
cis-1,2-Dichloroethene	10.0	10.1		ppb v/v		101	70 - 130
cis-1,3-Dichloropropene	10.0	11.3		ppb v/v		113	70 - 130
Cyclohexane	10.0	11.1		ppb v/v		111	70 - 130
Dibromochloromethane	10.0	10.9		ppb v/v		109	70 - 130
Dichlorodifluoromethane	10.0	10.4		ppb v/v		104	70 - 130
Ethylbenzene	10.0	10.3		ppb v/v		103	70 - 130
Freon TF	10.0	10.1		ppb v/v		101	70 - 130
Hexachlorobutadiene	10.0	10.1		ppb v/v		101	70 - 130
Isopropyl alcohol	10.0	8.52		ppb v/v		85	70 - 130
m,p-Xylene	20.0	20.1		ppb v/v		100	70 - 130
Methyl Butyl Ketone (2-Hexanone)	10.0	11.2		ppb v/v		112	70 - 130
Methyl Ethyl Ketone	10.0	10.1		ppb v/v		101	70 - 130
methyl isobutyl ketone	10.0	11.7		ppb v/v		117	70 - 130
Methyl tert-butyl ether	10.0	9.88		ppb v/v		99	70 - 130

TestAmerica Burlington

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-105066/4

Matrix: Air

Analysis Batch: 105066

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	10.0	9.95		ppb v/v		100	70 - 130
n-Heptane	10.0	11.0		ppb v/v		110	70 - 130
n-Hexane	10.0	10.9		ppb v/v		109	70 - 130
Styrene	10.0	10.7		ppb v/v		107	70 - 130
tert-Butyl alcohol	10.0	9.15		ppb v/v		92	70 - 130
Tetrachloroethene	10.0	9.86		ppb v/v		99	70 - 130
Tetrahydrofuran	10.0	10.6		ppb v/v		106	70 - 130
Toluene	10.0	10.2		ppb v/v		102	70 - 130
trans-1,2-Dichloroethene	10.0	10.8		ppb v/v		108	70 - 130
trans-1,3-Dichloropropene	10.0	11.4		ppb v/v		114	70 - 130
Trichloroethene	10.0	10.9		ppb v/v		109	70 - 130
Trichlorofluoromethane	10.0	9.99		ppb v/v		100	70 - 130
Vinyl chloride	10.0	9.89		ppb v/v		99	70 - 130
Xylene, o-	10.0	9.95		ppb v/v		100	70 - 130
Naphthalene	10.0	10.4		ppb v/v		104	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	55	59.6		ug/m3		109	70 - 130
1,1,2,2-Tetrachloroethane	69	72.2		ug/m3		105	70 - 130
1,1,2-Trichloroethane	55	57.3		ug/m3		105	70 - 130
1,1-Dichloroethane	40	40.8		ug/m3		101	70 - 130
1,1-Dichloroethene	40	39.0		ug/m3		98	70 - 130
1,2,4-Trichlorobenzene	74	83.2		ug/m3		112	70 - 130
1,2,4-Trimethylbenzene	49	48.8		ug/m3		99	70 - 130
1,2-Dibromoethane	77	82.7		ug/m3		108	70 - 130
1,2-Dichlorobenzene	60	62.7		ug/m3		104	70 - 130
1,2-Dichloroethane	40	43.6		ug/m3		108	70 - 130
1,2-Dichloropropane	46	49.9		ug/m3		108	70 - 130
1,2-Dichlorotetrafluoroethane	70	78.9		ug/m3		113	70 - 130
1,3,5-Trimethylbenzene	49	48.5		ug/m3		99	70 - 130
1,3-Butadiene	22	21.4		ug/m3		97	70 - 130
1,3-Dichlorobenzene	60	64.1		ug/m3		107	70 - 130
1,4-Dichlorobenzene	60	61.8		ug/m3		103	70 - 130
1,4-Dioxane	36	36.1		ug/m3		100	70 - 130
2,2,4-Trimethylpentane	47	50.7		ug/m3		108	70 - 130
2-Chlorotoluene	52	53.2		ug/m3		103	70 - 130
3-Chloropropene	31	30.1		ug/m3		96	70 - 130
4-Ethyltoluene	49	50.6		ug/m3		103	70 - 130
Acetone	24	24.0		ug/m3		101	70 - 130
Benzene	32	33.8		ug/m3		106	70 - 130
Bromodichloromethane	67	75.5		ug/m3		113	70 - 130
Bromoethene(Vinyl Bromide)	44	43.7		ug/m3		100	70 - 130
Bromoform	100	126		ug/m3		122	70 - 130
Bromomethane	39	39.3		ug/m3		101	70 - 130
Carbon disulfide	31	36.3		ug/m3		117	70 - 130
Carbon tetrachloride	63	67.6		ug/m3		107	70 - 130
Chlorobenzene	46	46.6		ug/m3		101	70 - 130
Chloroethane	26	25.7		ug/m3		98	70 - 130

TestAmerica Burlington

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-105066/4

Matrix: Air

Analysis Batch: 105066

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	49	49.8		ug/m3		102	70 - 130
Chloromethane	21	19.6		ug/m3		95	70 - 130
cis-1,2-Dichloroethene	40	39.9		ug/m3		101	70 - 130
cis-1,3-Dichloropropene	45	51.3		ug/m3		113	70 - 130
Cyclohexane	34	38.2		ug/m3		111	70 - 130
Dibromochloromethane	85	92.8		ug/m3		109	70 - 130
Dichlorodifluoromethane	49	51.2		ug/m3		104	70 - 130
Ethylbenzene	43	44.5		ug/m3		103	70 - 130
Freon TF	77	77.6		ug/m3		101	70 - 130
Hexachlorobutadiene	110	108		ug/m3		101	70 - 130
Isopropyl alcohol	25	20.9		ug/m3		85	70 - 130
m,p-Xylene	87	87.2		ug/m3		100	70 - 130
Methyl Butyl Ketone (2-Hexanone)	41	45.7		ug/m3		112	70 - 130
Methyl Ethyl Ketone	29	29.8		ug/m3		101	70 - 130
methyl isobutyl ketone	41	47.9		ug/m3		117	70 - 130
Methyl tert-butyl ether	36	35.6		ug/m3		99	70 - 130
Methylene Chloride	35	34.6		ug/m3		100	70 - 130
n-Heptane	41	45.2		ug/m3		110	70 - 130
n-Hexane	35	38.3		ug/m3		109	70 - 130
Styrene	43	45.5		ug/m3		107	70 - 130
tert-Butyl alcohol	30	27.7		ug/m3		92	70 - 130
Tetrachloroethene	68	66.9		ug/m3		99	70 - 130
Tetrahydrofuran	29	31.2		ug/m3		106	70 - 130
Toluene	38	38.3		ug/m3		102	70 - 130
trans-1,2-Dichloroethene	40	42.8		ug/m3		108	70 - 130
trans-1,3-Dichloropropene	45	51.6		ug/m3		114	70 - 130
Trichloroethene	54	58.7		ug/m3		109	70 - 130
Trichlorofluoromethane	56	56.1		ug/m3		100	70 - 130
Vinyl chloride	26	25.3		ug/m3		99	70 - 130
Xylene, o-	43	43.2		ug/m3		100	70 - 130
Naphthalene	52	54.4		ug/m3		104	70 - 130

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Air - GC/MS VOA

### Analysis Batch: 105000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-33696-8	IA-1	Total/NA	Air	TO-15	
200-33696-9	IA-2	Total/NA	Air	TO-15	
200-33696-10	OA-1	Total/NA	Air	TO-15	
LCS 200-105000/3	Lab Control Sample	Total/NA	Air	TO-15	
MB 200-105000/4	Method Blank	Total/NA	Air	TO-15	

### Analysis Batch: 105064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-33696-2	SV-2	Total/NA	Air	TO-15	
200-33696-3	SV-3	Total/NA	Air	TO-15	
200-33696-4	SV-4	Total/NA	Air	TO-15	
200-33696-5	SV-5	Total/NA	Air	TO-15	
200-33696-6	SV-6	Total/NA	Air	TO-15	
200-33696-7	SV-7	Total/NA	Air	TO-15	
LCS 200-105064/3	Lab Control Sample	Total/NA	Air	TO-15	
MB 200-105064/4	Method Blank	Total/NA	Air	TO-15	

### Analysis Batch: 105066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-33696-1	SV-1	Total/NA	Air	TO-15	
LCS 200-105066/4	Lab Control Sample	Total/NA	Air	TO-15	
MB 200-105066/5	Method Blank	Total/NA	Air	TO-15	

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Client Sample ID: SV-1

Date Collected: 05/20/16 10:24

Date Received: 05/25/16 10:15

Lab Sample ID: 200-33696-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	105066	05/27/16 15:41	K1P	TAL BUR

## Client Sample ID: SV-2

Date Collected: 05/20/16 10:45

Date Received: 05/25/16 10:15

Lab Sample ID: 200-33696-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.5	105064	05/27/16 16:24	GGG	TAL BUR

## Client Sample ID: SV-3

Date Collected: 05/20/16 11:12

Date Received: 05/25/16 10:15

Lab Sample ID: 200-33696-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		286	105064	05/27/16 20:39	GGG	TAL BUR

## Client Sample ID: SV-4

Date Collected: 05/20/16 11:08

Date Received: 05/25/16 10:15

Lab Sample ID: 200-33696-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2	105064	05/27/16 17:16	GGG	TAL BUR

## Client Sample ID: SV-5

Date Collected: 05/20/16 10:52

Date Received: 05/25/16 10:15

Lab Sample ID: 200-33696-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	105064	05/27/16 18:07	GGG	TAL BUR

## Client Sample ID: SV-6

Date Collected: 05/20/16 11:00

Date Received: 05/25/16 10:15

Lab Sample ID: 200-33696-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		4.55	105064	05/27/16 18:57	GGG	TAL BUR

TestAmerica Burlington



# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

**Client Sample ID: SV-7**

**Lab Sample ID: 200-33696-7**

**Date Collected: 05/20/16 11:31**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.5	105064	05/27/16 19:48	GGG	TAL BUR

**Client Sample ID: IA-1**

**Lab Sample ID: 200-33696-8**

**Date Collected: 05/20/16 11:10**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	105000	05/27/16 03:29	P1M	TAL BUR

**Client Sample ID: IA-2**

**Lab Sample ID: 200-33696-9**

**Date Collected: 05/20/16 11:05**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	105000	05/27/16 04:20	P1M	TAL BUR

**Client Sample ID: OA-1**

**Lab Sample ID: 200-33696-10**

**Date Collected: 05/20/16 11:22**

**Matrix: Air**

**Date Received: 05/25/16 10:15**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	105000	05/27/16 05:12	P1M	TAL BUR

## Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Certification Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

## Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-17
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-17
Florida	NELAP	4	E87467	06-30-16
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-17
Minnesota	NELAP	5	050-999-436	12-31-16
New Hampshire	NELAP	1	2006	12-18-16
New Jersey	NELAP	2	VT972	06-30-16
New York	NELAP	2	10391	04-01-17 *
Pennsylvania	NELAP	3	68-00489	04-30-17
Rhode Island	State Program	1	LAO00298	12-30-16
US Fish & Wildlife	Federal		LE-058448-0	10-31-16
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-16
Virginia	NELAP	3	460209	12-14-16

## Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

\* Certification renewal pending - certification considered valid.

TestAmerica Burlington

# Method Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Sample Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-33696-1	SV-1	Air	05/20/16 10:24	05/25/16 10:15
200-33696-2	SV-2	Air	05/20/16 10:45	05/25/16 10:15
200-33696-3	SV-3	Air	05/20/16 11:12	05/25/16 10:15
200-33696-4	SV-4	Air	05/20/16 11:08	05/25/16 10:15
200-33696-5	SV-5	Air	05/20/16 10:52	05/25/16 10:15
200-33696-6	SV-6	Air	05/20/16 11:00	05/25/16 10:15
200-33696-7	SV-7	Air	05/20/16 11:31	05/25/16 10:15
200-33696-8	IA-1	Air	05/20/16 11:10	05/25/16 10:15
200-33696-9	IA-2	Air	05/20/16 11:05	05/25/16 10:15
200-33696-10	OA-1	Air	05/20/16 11:22	05/25/16 10:15




**TestAmerica Burlington**  
 30 Community Drive  
 Suite 11

South Burlington, VT 05403  
 phone 802-660-1990 fax 802-660-1919

## Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: <i>Charles Boon</i>		Samples Collected By: <i>APAS</i>		# of <u>2</u> COCs	
Company: <i>TORRES env. restoration</i>		Phone: <i>716-864-2726</i>		EPA 25C		Other (Please specify in notes section)	
Address: <i>2558 Hamburg Pike Suite 300</i>		Email: <i>charles@turnkeyllc.com</i>		EPA 3C		Landfill Gas	
City/State/Zip: <i>Buffalo NY 14218</i>		Site Contact: <i>Nick Smith</i>		MA-APH		Soil Gas	
Phone: <i>716-856-6635</i>		TA Contact: <i>Bruce Fallick</i>		TO-15		Ambient Air	
FAX:		Analysis Turnaround Time		Canister ID		Indoor Air	
Project Name: <i>Furmy 17126 74 Washington St</i>		Standard (Specify) <input checked="" type="checkbox"/>		Flow Controller ID		Sample Type	
Site: <i>741 Washington St</i>		Rush (Specify)		Canister ID		Other (Please specify in notes section)	
PO # <i>0092-013-500</i>				Canister ID		ASTM D-1946	
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID
SU-1	5/14-5/14	11:50	10:24	-30.4	-5	3170	3686
SU-2	5/14-5/14	11:51	10:45	-30.2	-6	3683	5151
SU-3	5/14-5/14	12:03	11:12	-29.3	-7	3127	3161
SU-4	5/14-5/14	11:53	11:08	-30.1	-8	5227	2778
SU-5	5/14-5/14	11:55	10:52	-27.5	-5	4510	5400
SU-6	5/14-5/14	11:54	11:00	-33.7	-5	2930	4316
Temperature (Fahrenheit)							
		Interior	Ambient				
Start			54°F				
Stop			60°F				
Pressure (inches of Hg)							
		Interior	Ambient				
Start							
Stop							
Special Instructions/QC Requirements & Comments:							
 200-33696 Chain of Custody							
Samples Shipped by: <i>[Signature]</i>		Date/Time: <i>5/23/16 @ 11:35</i>		Samples Received by: <i>[Signature]</i>			
Samples Returned by: <i>[Signature]</i>		Date/Time: <i>5/23/16 @ 14:00</i>		Received by: <i>[Signature]</i>			
Requested by: <i>[Signature]</i>		Date/Time:		Received by: <i>[Signature]</i>			

Lab Use Only      Shipper Name:      Opened by:      Condition:      Received by:      Date/Time: *5/25/16 10:15*

**TestAmerica Burlington**  
 30 Community Drive  
 Suite 11  
 South Burlington, VT 05403  
 phone 802-660-1990 fax 802-660-1919

### Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: <i>Chris Anolis</i>		Samples Collected By: <i>UAS</i>				2 of 2 COCs											
Company: <i>Turkey Env. Restoration</i>		Phone: <i>714-864-2736</i>		MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)					
Address: <i>2558 Dunbar Pike Suite 300</i>		Email: <i>Cheryl &amp; Teresa@turkeyenv.com</i>		Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type					
City/State/Zip: <i>Barnstable, MA 01928</i>		Site Contact: <i>Mike Spaul</i>		Time Start	Time Stop														
Phone: <i>714-956-6635</i>		TA Contact: <i>David Fischer</i>		Analysis Turnaround Time		Standard (Specify)		Rush (Specify)											
FAX:																			
Project Name: <i>Farm Trico Building</i>																			
Site: <i>791 Lubington St</i>																			
PO # <i>6092-013-500</i>																			
Sample Identification																			
Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	
<i>SU-7</i>	<i>5/14-5/20 11:48</i>	<i>11:31</i>	<i>-30.2</i>	<i>-5</i>	<i>4648</i>	<i>3274</i>	<i>X</i>												
<i>IA-1</i>	<i>5/14-5/20 12:02</i>	<i>11:10</i>	<i>-30.8</i>	<i>-5</i>	<i>5198</i>	<i>3140</i>	<i>X</i>												
<i>IA-2</i>	<i>5/14-5/20 11:58</i>	<i>11:05</i>	<i>-30.1</i>	<i>-5</i>	<i>4107</i>	<i>5719</i>	<i>X</i>												
<i>OA-1</i>	<i>5/14-5/20 12:05</i>	<i>11:22</i>	<i>-24.8</i>	<i>-7</i>	<i>4442</i>	<i>3338</i>	<i>X</i>												
Temperature (Fahrenheit)																			
Interior		Ambient		Pressure (inches of Hg)															
Start	Stop	Start	Stop	Start	Stop	Start	Stop	Start	Stop	Start	Stop	Start	Stop	Start	Stop	Start	Stop	Start	Stop

Special Instructions/QC Requirements & Comments:

Samples Shipped by: *[Signature]*  
 Date/Time: *5/23/16 @ 1135*  
 Samples Acquired by: *[Signature]*  
 Date/Time: *5/23/16 @ 1400*  
 Samples Received by: *[Signature]*  
 Date/Time: *5/25/16 1015*  
 Received by: *[Signature]*

Lab Use Only      Shipper Name:      Opened by:      Condition:      13

FROM: KEN KINECKI  
TESTAMERICA  
10 HAZELWOOD DR  
AMHERST NY 14228  
US

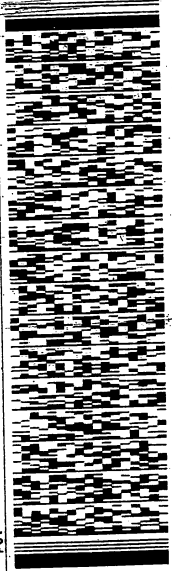
SHIP DATE: 23MAY16  
ACTWGT: 35.0 LB TAN  
CAD: 735603/CAF E2912

(716) 691-2600  
BILL SENDER

TO MARK PHILLIPS  
TA BURLINGTON  
30 COMMUNITY DRIVE  
SUITE 11  
SOUTH BURLINGTON VT 05403  
(US)

REF: (802) 660-1990  
PO:

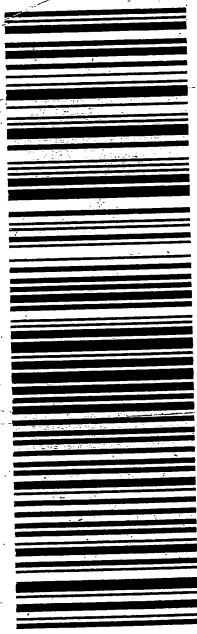
DEPT:



TRK# 6763 7764 9784

05403

9622 0019 0 (000 237 7774) 4 00 6763 7764 9784



Part # 156148V-434 RIT2 12/15

SHIP DATE: 23MAY16  
ACTWGT: 35.0 LB TAN  
CAD: 735603/CAF E2912

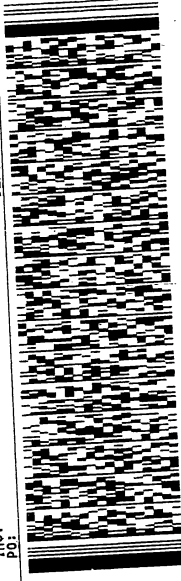
FROM: KEN KINECKI  
TESTAMERICA  
10 HAZELWOOD DR  
AMHERST NY 14228  
US

(716) 691-2600  
BILL SENDER

TO MARK PHILLIPS  
TA BURLINGTON  
30 COMMUNITY DRIVE  
SUITE 11  
SOUTH BURLINGTON VT 05403  
(US)

REF: (802) 660-1990  
PO:

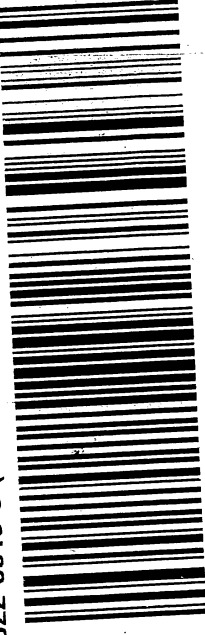
DEPT:



TRK# 6763 7764 9773

05403

9622 0019 0 (000 237 7774) 4 00 6763 7764 9773



Part # 156148V-434 RIT2 12/15



SHIP DATE: 23MAY16  
SCTMGT: 28.0 LB  
CAD: 735603/CAFE2912

BILL SENDER

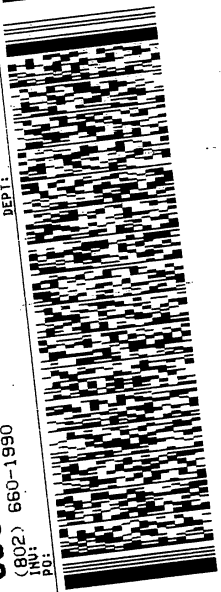
(716) 691-2600

FROM:  
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(US)

REF: (802) 660-1990  
DEPT: POST

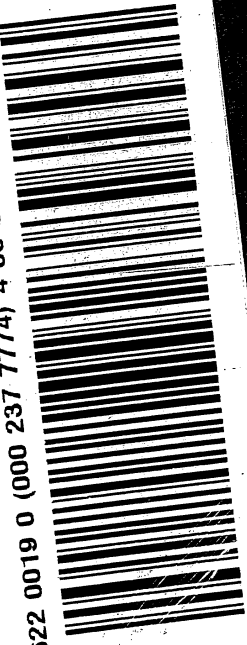
FedEx  
Ground



TRK# 6763 7764 9795

05403

9622 0019 0 (000 237 7774) 4 00 6763 7764 9795



Part # 156148V-434 RTT2 12/15

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## Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 200-33696-1

**Login Number: 33696**

**List Source: TestAmerica Burlington**

**List Number: 1**

**Creator: Asselin, Sarah E**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 200-33696-1

**Login Number: 33696**

**List Source: TestAmerica Burlington**

**List Number: 2**

**Creator: Asselin, Sarah E**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time (Excluding tests with immediate HTs)..		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.		
If necessary, staff have been informed of any short hold time or quick TAT needs		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Sampling Company provided.		
Samples received within 48 hours of sampling.		
Samples requiring field filtration have been filtered in the field.		
Chlorine Residual checked.		





200-33117-A-12

5134

Location: Air-Storage

Bottle: Summa Canister 6L

Sampled: 4/20/2016 12:00 AM 200-922016

### Pre-Shipment Clean Canister Certification Report

Certification Type:  Batch  Individual

Canister Cleaning & Pre-Shipment Leak Test											
System ID		# Cycles		Cleaning Date		Technician		Canister Size			
OVEN3/4		25		4/20/16		~		(6L) 1L 3L			
Leak Test											
Port	Can ID	Initial <sup>1</sup> ("Hg)	Final ("Hg)	Adjusted Initial <sup>2</sup> ("Hg)	Difference <sup>3</sup>	Initial Reading		Final Reading			
						Gauge ID: G19	Date: 4/21/16	Gauge ID: G19	Date: 4/27/16	Date: 4/28/16	
1	5730	-29.6	-29.6	0	0	Time: 1250	Tech: Sr	BP: 29.8	(°C) 22	BP: 29.8	(°C) 22
2	3338	-29.6	-29.6	0	0						
3	4076	-29.6	-29.6	0	0						
4	3243	-29.7	-29.8	+0.1	0						
5	4318	-29.8	-29.8	0	0						
6	3274	-29.6	-29.6	0	0						
7	2740	-29.6	-29.6	0	0						
8	3369	-29.6	-29.6	0	0						
9	3161	-29.6	-29.6	0	0						
10	3348	-29.6	-29.6	0	0						
11	3686	-29.6	-29.6	0	0						
12	5134	-29.8	-29.8	-29.8	0						

<sup>1</sup> Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

<sup>2</sup> To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

<sup>3</sup> To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory											
Test Method: <input type="checkbox"/> TO15 Routine <input type="checkbox"/> TO15 LL <input type="checkbox"/> NJDEP-LL TO15				Inventory Level				Secondary Review			
Can ID	Date	Sequence	Analyst	1	2	3	4	Limited	Review Date	Reviewer	
5134	4/25/16	19570	PAD		✓				4/26/16	COZ	

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.

Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments: 0.04

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200-33242-A-9

4829

Location: Air-Storage

Bottle: Summa Canister 6L

Sampled: 4/27/2016 12:00 AM 200-925080

### Pre-Shipment Clean Canister Certification Report

Certification Type:  Batch  Individual

Canister Cleaning & Pre-Shipment Leak Test										
System ID		# Cycles		Cleaning Date		Technician		Canister Size		
TOP		25		4/27/16		S		(6L)	1L	3L
Leak Test										
Port	Can ID	Initial <sup>1</sup> ("Hg)	Final ("Hg)	Adjusted Initial <sup>2</sup> ("Hg)	Difference <sup>3</sup>	Initial Reading		Final Reading		
						Gauge ID:	Date:	Gauge ID:	Date:	BP:
1	5151		-29.5	-29.7	+0.2	G-19	4/28/16	G-19	5/3/16	
2	5400		-29.5		+0.2	1030		1045		
3	<del>4359</del>		<del>-29.5</del>	<del>-29.5</del>						
4	<del>2989</del>		<del>-29.5</del>	<del>-29.5</del>						
5	2778		-29.6		+0.1	29.8		29.7	29.5	
6	4316		-29.6		+0.1	22		22	22	
7	4812		-29.6		+0.1	<sup>3</sup> Acceptance Criteria: (1) The difference must be less than or equal to + 0.5 (2) Pressure readings must be at least 24 hours apart. If time frame was not met, the PM must authorize shipment of canister.				
8	5062		-29.2	-29.5	+0.3	PM Authorization:				
9	4829	29.8	-29.5	-29.5	0	Signature _____ Date _____				
10	3140		-29.3		+0.4					
11	3040		-29.5	-29.5	+0.2					
12	6019		-29.5	-29.5						

<sup>1</sup> Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

<sup>2</sup> To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

<sup>3</sup> To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory										
Test Method: <input type="checkbox"/> TO15 Routine <input type="checkbox"/> TO15 LL <input type="checkbox"/> NJDEP-LL TO15				Inventory Level				Secondary Review		
Can ID	Date	Sequence	Analyst	1	2	3	4	Limited	Review Date	Reviewer
4829	5/02/16	19668	KP		✓				5/02/16	PAF

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLS listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLS listed in laboratory SOP NJDEP-LLTO15.

Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments:

O.C.04

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-33117-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5134 Lab Sample ID: 200-33117-12  
 Matrix: Air Lab File ID: 19570\_10.D  
 Analysis Method: TO-15 Date Collected: 04/20/2016 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/22/2016 19:47  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 103578 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U *	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U *	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-33117-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5134 Lab Sample ID: 200-33117-12  
 Matrix: Air Lab File ID: 19570\_10.D  
 Analysis Method: TO-15 Date Collected: 04/20/2016 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/22/2016 19:47  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 103578 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-33117-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5134 Lab Sample ID: 200-33117-12  
 Matrix: Air Lab File ID: 19570\_10.D  
 Analysis Method: TO-15 Date Collected: 04/20/2016 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/22/2016 19:47  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 103578 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHC.i\20160422-19570.b\19570\_10.D  
 Lims ID: 200-33117-A-12  
 Client ID: 5134  
 Sample Type: Client  
 Inject. Date: 22-Apr-2016 19:47:30 ALS Bottle#: 12 Worklist Smp#: 10  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0019570-010  
 Misc. Info.: 33117-12  
 Operator ID: pad Instrument ID: CHC.i  
 Method: \\ChromNA\Burlington\ChromData\CHC.i\20160422-19570.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 25-Apr-2016 11:39:00 Calib Date: 04-Apr-2016 11:21:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHC.i\20160407-19261.b\19158\_16.D  
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: daiglep

Date: 25-Apr-2016 11:29:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.991				ND	
2 Dichlorodifluoromethane	85		3.060				ND	
3 Chlorodifluoromethane	51		3.119				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.332				ND	
5 Chloromethane	50		3.471				ND	
6 Butane	43		3.674				ND	
7 Vinyl chloride	62		3.716				ND	
8 Butadiene	54		3.796				ND	
10 Bromomethane	94		4.490				ND	
11 Chloroethane	64		4.741				ND	
13 Vinyl bromide	106		5.136				ND	
14 Trichlorofluoromethane	101		5.248				ND	
17 Ethanol	45	5.905	5.862	0.043	82	1224	0.0699	
20 1,1,2-Trichloro-1,2,2-trif	101		6.358				ND	
21 1,1-Dichloroethene	96		6.396				ND	
22 Acetone	43		6.646				ND	
23 Carbon disulfide	76		6.774				ND	
24 Isopropyl alcohol	45		6.972				ND	
25 3-Chloro-1-propene	41		7.201				ND	
27 Methylene Chloride	49		7.506				ND	
28 2-Methyl-2-propanol	59		7.751				ND	
29 Methyl tert-butyl ether	73		7.917				ND	
31 trans-1,2-Dichloroethene	61		7.954				ND	
33 Hexane	57		8.349				ND	
34 1,1-Dichloroethane	63		8.845				ND	
35 Vinyl acetate	43		8.936				ND	
37 cis-1,2-Dichloroethene	96		9.977				ND	
38 2-Butanone (MEK)	72		10.035				ND	
39 Ethyl acetate	88		10.089				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
* 40 Chlorobromomethane	128	10.446	10.446	0.000	94	480544	10.0	



Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Tetrahydrofuran	42		10.446				ND	
42 Chloroform	83		10.596				ND	
43 Cyclohexane	84		10.825				ND	
44 1,1,1-Trichloroethane	97		10.857				ND	
45 Carbon tetrachloride	117		11.108				ND	
46 Isooctane	57		11.556				ND	
47 Benzene	78		11.583				ND	
48 1,2-Dichloroethane	62		11.775				ND	
49 n-Heptane	43		11.962				ND	
* 50 1,4-Difluorobenzene	114	12.448	12.453	-0.005	97	2463669	10.0	
53 Trichloroethene	95		12.917				ND	
54 1,2-Dichloropropane	63		13.483				ND	
55 Methyl methacrylate	69		13.670				ND	
56 1,4-Dioxane	88		13.723				ND	
57 Dibromomethane	174		13.750				ND	
58 Dichlorobromomethane	83		14.054				ND	
60 cis-1,3-Dichloropropene	75		15.004				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.292				ND	
65 Toluene	92		15.591				ND	
66 trans-1,3-Dichloropropene	75		16.205				ND	
67 1,1,2-Trichloroethane	83		16.578				ND	
68 Tetrachloroethene	166		16.674				ND	
69 2-Hexanone	43		17.027				ND	
71 Chlorodibromomethane	129		17.336				ND	
72 Ethylene Dibromide	107		17.603				ND	
* 74 Chlorobenzene-d5	117	18.500	18.500	0.000	92	2292170	10.0	
75 Chlorobenzene	112		18.558				ND	
76 Ethylbenzene	91		18.713				ND	
78 m-Xylene & p-Xylene	106		18.964				ND	
79 o-Xylene	106		19.802				ND	
80 Styrene	104		19.855				ND	
S 73 Xylenes, Total	106		20.100				ND	
81 Bromoform	173		20.277				ND	
82 Isopropylbenzene	105		20.485				ND	
84 1,1,1,2,2-Tetrachloroethane	83		21.147				ND	
85 N-Propylbenzene	91		21.205				ND	
88 4-Ethyltoluene	105		21.398				ND	
89 2-Chlorotoluene	91		21.403				ND	
90 1,3,5-Trimethylbenzene	105		21.504				ND	
92 tert-Butylbenzene	119		21.990				ND	
93 1,2,4-Trimethylbenzene	105		22.086				ND	
94 sec-Butylbenzene	105		22.316				ND	
95 4-Isopropyltoluene	119		22.518				ND	
96 1,3-Dichlorobenzene	146		22.545				ND	
97 1,4-Dichlorobenzene	146		22.678				ND	
98 Benzyl chloride	91		22.876				ND	
100 n-Butylbenzene	91		23.084				ND	
101 1,2-Dichlorobenzene	146		23.207				ND	
103 1,2,4-Trichlorobenzene	180		25.672				ND	
104 Hexachlorobutadiene	225		25.859				ND	
105 Naphthalene	128		26.147				ND	

Reagents:

ATTO15CISs\_00007

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
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TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHC.i\20160422-19570.b\19570\_10.D

Injection Date: 22-Apr-2016 19:47:30

Instrument ID: CHC.i

Operator ID: pad

Lims ID: 200-33117-A-12

Lab Sample ID: 200-33117-12

Worklist Smp#: 10

Client ID: 5134

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

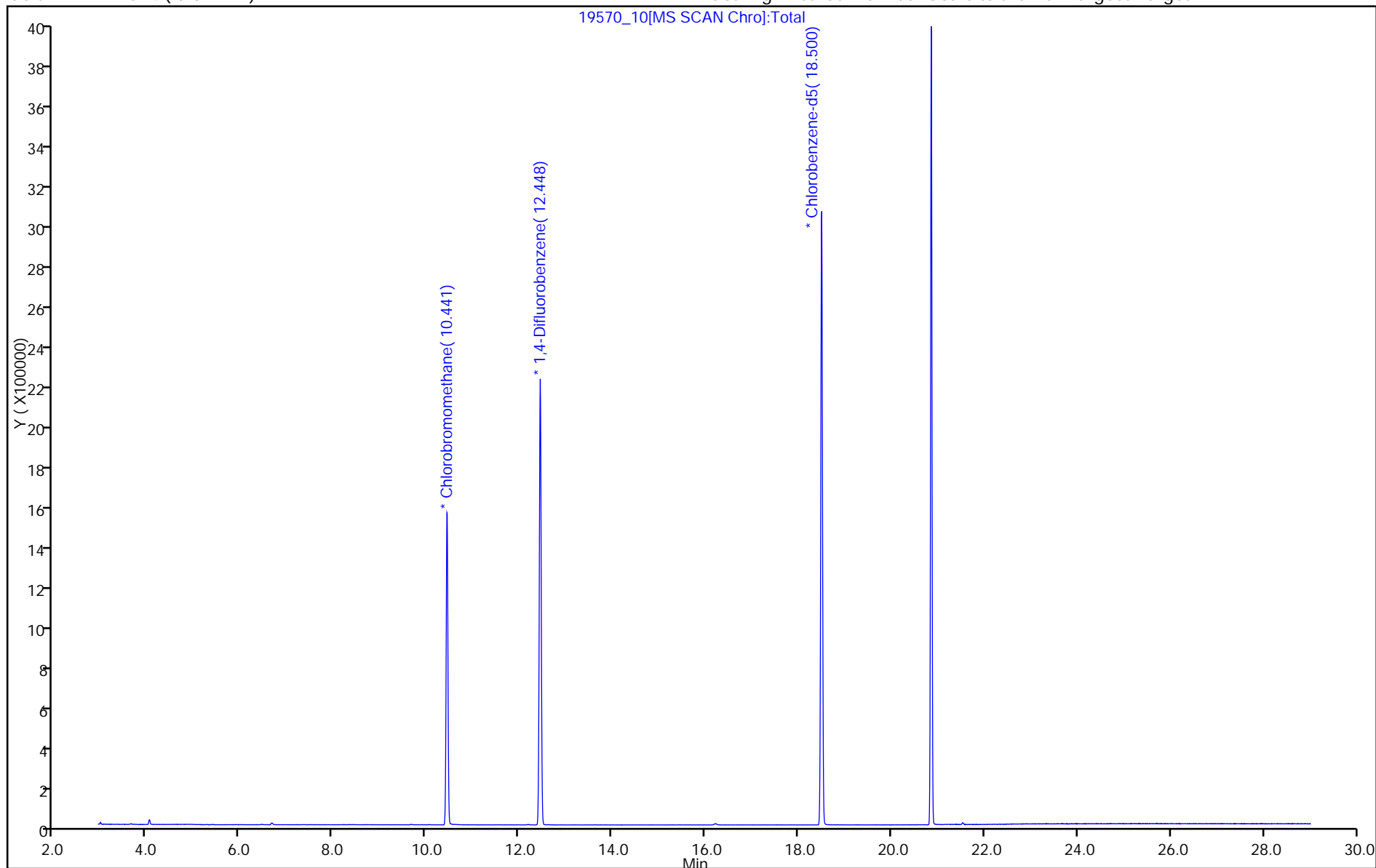
ALS Bottle#: 12

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-33242-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4829 Lab Sample ID: 200-33242-9  
 Matrix: Air Lab File ID: 19668\_10.D  
 Analysis Method: TO-15 Date Collected: 04/27/2016 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/28/2016 18:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 103817 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-33242-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4829 Lab Sample ID: 200-33242-9  
 Matrix: Air Lab File ID: 19668\_10.D  
 Analysis Method: TO-15 Date Collected: 04/27/2016 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/28/2016 18:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 103817 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-33242-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4829 Lab Sample ID: 200-33242-9  
 Matrix: Air Lab File ID: 19668\_10.D  
 Analysis Method: TO-15 Date Collected: 04/27/2016 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/28/2016 18:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 103817 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHC.i\20160428-19668.b\19668\_10.D  
 Lims ID: 200-33242-A-9  
 Client ID: 4829  
 Sample Type: Client  
 Inject. Date: 28-Apr-2016 18:37:30 ALS Bottle#: 11 Worklist Smp#: 10  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0019668-010  
 Misc. Info.: 33242-09  
 Operator ID: pad Instrument ID: CHC.i  
 Method: \\ChromNA\Burlington\ChromData\CHC.i\20160428-19668.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 02-May-2016 10:17:14 Calib Date: 25-Apr-2016 23:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHC.i\20160425-19605.b\19605\_11.D  
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN  
 Process Host: XAWRK050

First Level Reviewer: puangmaleek

Date: 02-May-2016 10:22:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.991				ND	
2 Dichlorodifluoromethane	85		3.060				ND	
3 Chlorodifluoromethane	51		3.113				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.332				ND	
5 Chloromethane	50		3.466				ND	
6 Butane	43		3.674				ND	
7 Vinyl chloride	62		3.716				ND	
8 Butadiene	54		3.796				ND	
10 Bromomethane	94		4.490				ND	
11 Chloroethane	64		4.736				ND	
13 Vinyl bromide	106		5.136				ND	
14 Trichlorofluoromethane	101		5.243				ND	
17 Ethanol	45		5.862				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		6.353				ND	
21 1,1-Dichloroethene	96		6.390				ND	
22 Acetone	43		6.641				ND	
23 Carbon disulfide	76		6.774				ND	
24 Isopropyl alcohol	45		6.967				ND	
25 3-Chloro-1-propene	41		7.201				ND	
27 Methylene Chloride	49		7.506				ND	
28 2-Methyl-2-propanol	59		7.751				ND	
29 Methyl tert-butyl ether	73		7.911				ND	
31 trans-1,2-Dichloroethene	61		7.954				ND	
33 Hexane	57		8.344				ND	
34 1,1-Dichloroethane	63		8.840				ND	
35 Vinyl acetate	43		8.936				ND	
37 cis-1,2-Dichloroethene	96		9.977				ND	
39 Ethyl acetate	88		10.078				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
* 40 Chlorobromomethane	128	10.441	10.446	-0.005	96	637227	10.0	
41 Tetrahydrofuran	42		10.446				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
38 2-Butanone (MEK)	72		10.452				ND	
42 Chloroform	83		10.590				ND	
43 Cyclohexane	84		10.820				ND	
44 1,1,1-Trichloroethane	97		10.852				ND	
45 Carbon tetrachloride	117		11.108				ND	
46 Isooctane	57		11.556				ND	
47 Benzene	78		11.578				ND	
48 1,2-Dichloroethane	62		11.775				ND	
49 n-Heptane	43		11.962				ND	
* 50 1,4-Difluorobenzene	114	12.448	12.448	0.000	97	3305922	10.0	
53 Trichloroethene	95		12.917				ND	
54 1,2-Dichloropropane	63		13.483				ND	
55 Methyl methacrylate	69		13.664				ND	
56 1,4-Dioxane	88		13.718				ND	
57 Dibromomethane	174		13.744				ND	
58 Dichlorobromomethane	83		14.054				ND	
60 cis-1,3-Dichloropropene	75		15.004				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.292				ND	
65 Toluene	92		15.591				ND	
66 trans-1,3-Dichloropropene	75		16.205				ND	
67 1,1,2-Trichloroethane	83		16.578				ND	
68 Tetrachloroethene	166		16.674				ND	
69 2-Hexanone	43		17.021				ND	
71 Chlorodibromomethane	129		17.336				ND	
72 Ethylene Dibromide	107		17.598				ND	
* 74 Chlorobenzene-d5	117	18.495	18.500	-0.006	91	3044718	10.0	
75 Chlorobenzene	112		18.558				ND	
76 Ethylbenzene	91		18.708				ND	
78 m-Xylene & p-Xylene	106		18.959				ND	
79 o-Xylene	106		19.797				ND	
80 Styrene	104		19.855				ND	
S 73 Xylenes, Total	106		20.100				ND	
81 Bromoform	173		20.277				ND	
82 Isopropylbenzene	105		20.485				ND	
84 1,1,1,2,2-Tetrachloroethane	83		21.141				ND	
85 N-Propylbenzene	91		21.205				ND	
88 4-Ethyltoluene	105		21.398				ND	
89 2-Chlorotoluene	91		21.403				ND	
90 1,3,5-Trimethylbenzene	105		21.504				ND	
92 tert-Butylbenzene	119		21.990				ND	
93 1,2,4-Trimethylbenzene	105		22.086				ND	
94 sec-Butylbenzene	105		22.316				ND	
95 4-Isopropyltoluene	119		22.513				ND	
96 1,3-Dichlorobenzene	146		22.545				ND	
97 1,4-Dichlorobenzene	146		22.678				ND	
98 Benzyl chloride	91		22.876				ND	
100 n-Butylbenzene	91		23.084				ND	
101 1,2-Dichlorobenzene	146		23.207				ND	
103 1,2,4-Trichlorobenzene	180		25.672				ND	
104 Hexachlorobutadiene	225		25.854				ND	
105 Naphthalene	128		26.147				ND	



Reagents:

ATTO15CISs\_00007

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
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- 5
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TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHC.i\20160428-19668.b\19668\_10.D

Injection Date: 28-Apr-2016 18:37:30

Instrument ID: CHC.i

Operator ID: pad

Lims ID: 200-33242-A-9

Lab Sample ID: 200-33242-9

Worklist Smp#: 10

Client ID: 4829

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

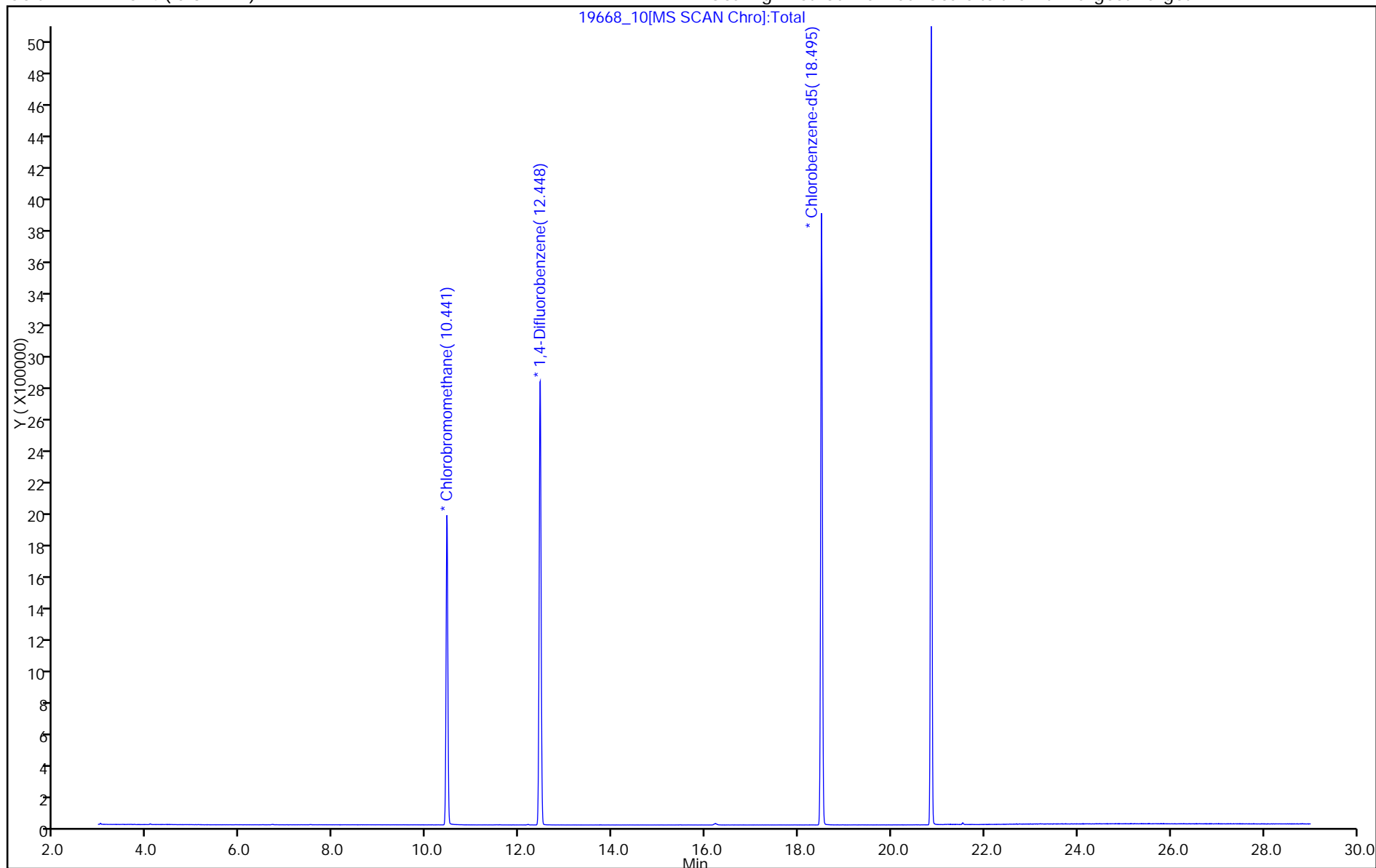
ALS Bottle#: 11

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-100535-1

Client Project/Site: Benchmark - 791 Washington St., Buffalo

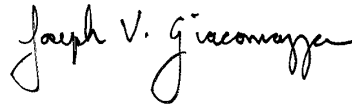
For:

Turnkey Environmental Restoration, LLC

2558 Hamburg Turnpike

Lackawanna, New York 14218

Attn: Mr. Christopher Z Boron



Authorized for release by:

5/31/2016 9:52:31 AM

Joe Giacomazza, Project Management Assistant II

[joe.giacomazza@testamericainc.com](mailto:joe.giacomazza@testamericainc.com)

Designee for

Brian Fischer, Manager of Project Management

(716)504-9835

[brian.fischer@testamericainc.com](mailto:brian.fischer@testamericainc.com)

### LINKS

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results through

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

### GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.

### Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Job ID: 480-100535-1

### Laboratory: TestAmerica Buffalo

#### Narrative

#### Job Narrative 480-100535-1

#### Receipt

The sample was received on 5/23/2016 1:50 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

#### GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-303434 recovered outside acceptance criteria, low biased, for 1,1,2-Trichloro-1,2,2-trifluoroethane and Cyclohexane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-303536 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 480-303303 and analytical batch 480-303536 recovered outside control limits for the following analyte: Benzaldehyde. This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-303536 recovered above the upper control limit for 2,4-Dinitrophenol, Benzaldehyde and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: BASEMENT SURFACE WATER SAMPLE (480-100535-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method(s) 8081B: The following sample was diluted due to the nature of the sample matrix: BASEMENT SURFACE WATER SAMPLE (480-100535-1). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 6010C: The continuing calibration blank (CCB) for analytical batch 480-303555 contained Total Potassium above the reporting limit (RL). Reported samples, (MB 480-303272/1-A), associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 480-303284.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 480-303288.

## Case Narrative

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

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### Job ID: 480-100535-1 (Continued)

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#### Laboratory: TestAmerica Buffalo (Continued)

Method(s) 8151A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 480-303353.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

**Client Sample ID: BASEMENT SURFACE WATER SAMPLE**

**Lab Sample ID: 480-100535-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzaldehyde	0.44	J B *	4.6	0.25	ug/L	1		8270D	Total/NA
4,4'-DDE	0.080	J	0.23	0.053	ug/L	5		8081B	Total/NA
gamma-BHC (Lindane)	0.051	J B	0.23	0.036	ug/L	5		8081B	Total/NA
PCB-1248	0.16	J	0.47	0.16	ug/L	1		8082A	Total/NA
Barium	0.010		0.0020		mg/L	1		6010C	Total/NA
Calcium	200		0.50		mg/L	1		6010C	Total/NA
Iron	2.7		0.050		mg/L	1		6010C	Total/NA
Magnesium	36.9		0.20		mg/L	1		6010C	Total/NA
Manganese	0.42		0.0030		mg/L	1		6010C	Total/NA
Nickel	0.059		0.010		mg/L	1		6010C	Total/NA
Potassium	80.8		0.50		mg/L	1		6010C	Total/NA
Sodium	191		1.0		mg/L	1		6010C	Total/NA
Zinc	0.045		0.010		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

**Client Sample ID: BASEMENT SURFACE WATER SAMPLE**

**Lab Sample ID: 480-100535-1**

**Date Collected: 05/20/16 15:00**

**Matrix: Water**

**Date Received: 05/23/16 13:50**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/25/16 04:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/25/16 04:00	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/25/16 04:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			05/25/16 04:00	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/25/16 04:00	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/25/16 04:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/25/16 04:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/25/16 04:00	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/25/16 04:00	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/25/16 04:00	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/25/16 04:00	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/25/16 04:00	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/25/16 04:00	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/25/16 04:00	1
2-Hexanone	ND		5.0	1.2	ug/L			05/25/16 04:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/25/16 04:00	1
Acetone	ND		10	3.0	ug/L			05/25/16 04:00	1
Benzene	ND		1.0	0.41	ug/L			05/25/16 04:00	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/25/16 04:00	1
Bromoform	ND		1.0	0.26	ug/L			05/25/16 04:00	1
Bromomethane	ND		1.0	0.69	ug/L			05/25/16 04:00	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/25/16 04:00	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/25/16 04:00	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/25/16 04:00	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/25/16 04:00	1
Chloroethane	ND		1.0	0.32	ug/L			05/25/16 04:00	1
Chloroform	ND		1.0	0.34	ug/L			05/25/16 04:00	1
Chloromethane	ND		1.0	0.35	ug/L			05/25/16 04:00	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/25/16 04:00	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/25/16 04:00	1
Cyclohexane	ND		1.0	0.18	ug/L			05/25/16 04:00	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/25/16 04:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/25/16 04:00	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/25/16 04:00	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/25/16 04:00	1
Methyl acetate	ND		2.5	1.3	ug/L			05/25/16 04:00	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/25/16 04:00	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/25/16 04:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/25/16 04:00	1
Styrene	ND		1.0	0.73	ug/L			05/25/16 04:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/25/16 04:00	1
Toluene	ND		1.0	0.51	ug/L			05/25/16 04:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/25/16 04:00	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/25/16 04:00	1
Trichloroethene	ND		1.0	0.46	ug/L			05/25/16 04:00	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/25/16 04:00	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/25/16 04:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/25/16 04:00	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

**Client Sample ID: BASEMENT SURFACE WATER SAMPLE**

**Lab Sample ID: 480-100535-1**

Date Collected: 05/20/16 15:00

Matrix: Water

Date Received: 05/23/16 13:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		71 - 126		05/25/16 04:00	1
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		05/25/16 04:00	1
4-Bromofluorobenzene (Surr)	104		73 - 120		05/25/16 04:00	1
Dibromofluoromethane (Surr)	92		60 - 140		05/25/16 04:00	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4.6	0.60	ug/L		05/24/16 08:18	05/25/16 15:11	1
bis (2-chloroisopropyl) ether	ND		4.6	0.48	ug/L		05/24/16 08:18	05/25/16 15:11	1
2,4,5-Trichlorophenol	ND		4.6	0.44	ug/L		05/24/16 08:18	05/25/16 15:11	1
2,4,6-Trichlorophenol	ND		4.6	0.56	ug/L		05/24/16 08:18	05/25/16 15:11	1
2,4-Dichlorophenol	ND		4.6	0.47	ug/L		05/24/16 08:18	05/25/16 15:11	1
2,4-Dimethylphenol	ND		4.6	0.46	ug/L		05/24/16 08:18	05/25/16 15:11	1
2,4-Dinitrophenol	ND		9.2	2.0	ug/L		05/24/16 08:18	05/25/16 15:11	1
2,4-Dinitrotoluene	ND		4.6	0.41	ug/L		05/24/16 08:18	05/25/16 15:11	1
2,6-Dinitrotoluene	ND		4.6	0.37	ug/L		05/24/16 08:18	05/25/16 15:11	1
2-Chloronaphthalene	ND		4.6	0.42	ug/L		05/24/16 08:18	05/25/16 15:11	1
2-Chlorophenol	ND		4.6	0.49	ug/L		05/24/16 08:18	05/25/16 15:11	1
2-Methylphenol	ND		4.6	0.37	ug/L		05/24/16 08:18	05/25/16 15:11	1
2-Methylnaphthalene	ND		4.6	0.55	ug/L		05/24/16 08:18	05/25/16 15:11	1
2-Nitroaniline	ND		9.2	0.39	ug/L		05/24/16 08:18	05/25/16 15:11	1
2-Nitrophenol	ND		4.6	0.44	ug/L		05/24/16 08:18	05/25/16 15:11	1
3,3'-Dichlorobenzidine	ND		4.6	0.37	ug/L		05/24/16 08:18	05/25/16 15:11	1
3-Nitroaniline	ND		9.2	0.44	ug/L		05/24/16 08:18	05/25/16 15:11	1
4,6-Dinitro-2-methylphenol	ND		9.2	2.0	ug/L		05/24/16 08:18	05/25/16 15:11	1
4-Bromophenyl phenyl ether	ND		4.6	0.41	ug/L		05/24/16 08:18	05/25/16 15:11	1
4-Chloro-3-methylphenol	ND		4.6	0.41	ug/L		05/24/16 08:18	05/25/16 15:11	1
4-Chloroaniline	ND		4.6	0.54	ug/L		05/24/16 08:18	05/25/16 15:11	1
4-Chlorophenyl phenyl ether	ND		4.6	0.32	ug/L		05/24/16 08:18	05/25/16 15:11	1
4-Methylphenol	ND		9.2	0.33	ug/L		05/24/16 08:18	05/25/16 15:11	1
4-Nitroaniline	ND		9.2	0.23	ug/L		05/24/16 08:18	05/25/16 15:11	1
4-Nitrophenol	ND		9.2	1.4	ug/L		05/24/16 08:18	05/25/16 15:11	1
Acenaphthene	ND		4.6	0.38	ug/L		05/24/16 08:18	05/25/16 15:11	1
Acenaphthylene	ND		4.6	0.35	ug/L		05/24/16 08:18	05/25/16 15:11	1
Acetophenone	ND		4.6	0.50	ug/L		05/24/16 08:18	05/25/16 15:11	1
Anthracene	ND		4.6	0.26	ug/L		05/24/16 08:18	05/25/16 15:11	1
Atrazine	ND		4.6	0.42	ug/L		05/24/16 08:18	05/25/16 15:11	1
<b>Benzaldehyde</b>	<b>0.44</b>	<b>J B *</b>	4.6	0.25	ug/L		05/24/16 08:18	05/25/16 15:11	1
Benzo[a]anthracene	ND		4.6	0.33	ug/L		05/24/16 08:18	05/25/16 15:11	1
Benzo[a]pyrene	ND		4.6	0.43	ug/L		05/24/16 08:18	05/25/16 15:11	1
Benzo[b]fluoranthene	ND		4.6	0.31	ug/L		05/24/16 08:18	05/25/16 15:11	1
Benzo[g,h,i]perylene	ND		4.6	0.32	ug/L		05/24/16 08:18	05/25/16 15:11	1
Benzo[k]fluoranthene	ND		4.6	0.67	ug/L		05/24/16 08:18	05/25/16 15:11	1
Bis(2-chloroethoxy)methane	ND		4.6	0.32	ug/L		05/24/16 08:18	05/25/16 15:11	1
Bis(2-chloroethyl)ether	ND		4.6	0.37	ug/L		05/24/16 08:18	05/25/16 15:11	1
Bis(2-ethylhexyl) phthalate	ND		4.6	2.0	ug/L		05/24/16 08:18	05/25/16 15:11	1
Butyl benzyl phthalate	ND		4.6	0.92	ug/L		05/24/16 08:18	05/25/16 15:11	1
Caprolactam	ND		4.6	2.0	ug/L		05/24/16 08:18	05/25/16 15:11	1
Carbazole	ND		4.6	0.28	ug/L		05/24/16 08:18	05/25/16 15:11	1
Chrysene	ND		4.6	0.30	ug/L		05/24/16 08:18	05/25/16 15:11	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

**Client Sample ID: BASEMENT SURFACE WATER SAMPLE**

**Lab Sample ID: 480-100535-1**

Date Collected: 05/20/16 15:00

Matrix: Water

Date Received: 05/23/16 13:50

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		4.6	0.39	ug/L		05/24/16 08:18	05/25/16 15:11	1
Di-n-butyl phthalate	ND		4.6	0.29	ug/L		05/24/16 08:18	05/25/16 15:11	1
Di-n-octyl phthalate	ND		4.6	0.43	ug/L		05/24/16 08:18	05/25/16 15:11	1
Dibenzofuran	ND		9.2	0.47	ug/L		05/24/16 08:18	05/25/16 15:11	1
Diethyl phthalate	ND		4.6	0.20	ug/L		05/24/16 08:18	05/25/16 15:11	1
Dimethyl phthalate	ND		4.6	0.33	ug/L		05/24/16 08:18	05/25/16 15:11	1
Fluoranthene	ND		4.6	0.37	ug/L		05/24/16 08:18	05/25/16 15:11	1
Fluorene	ND		4.6	0.33	ug/L		05/24/16 08:18	05/25/16 15:11	1
Hexachlorobenzene	ND		4.6	0.47	ug/L		05/24/16 08:18	05/25/16 15:11	1
Hexachlorobutadiene	ND		4.6	0.63	ug/L		05/24/16 08:18	05/25/16 15:11	1
Hexachlorocyclopentadiene	ND		4.6	0.54	ug/L		05/24/16 08:18	05/25/16 15:11	1
Hexachloroethane	ND		4.6	0.54	ug/L		05/24/16 08:18	05/25/16 15:11	1
Indeno[1,2,3-cd]pyrene	ND		4.6	0.43	ug/L		05/24/16 08:18	05/25/16 15:11	1
Isophorone	ND		4.6	0.40	ug/L		05/24/16 08:18	05/25/16 15:11	1
N-Nitrosodi-n-propylamine	ND		4.6	0.50	ug/L		05/24/16 08:18	05/25/16 15:11	1
N-Nitrosodiphenylamine	ND		4.6	0.47	ug/L		05/24/16 08:18	05/25/16 15:11	1
Naphthalene	ND		4.6	0.70	ug/L		05/24/16 08:18	05/25/16 15:11	1
Nitrobenzene	ND		4.6	0.27	ug/L		05/24/16 08:18	05/25/16 15:11	1
Pentachlorophenol	ND		9.2	2.0	ug/L		05/24/16 08:18	05/25/16 15:11	1
Phenanthrene	ND		4.6	0.41	ug/L		05/24/16 08:18	05/25/16 15:11	1
Phenol	ND		4.6	0.36	ug/L		05/24/16 08:18	05/25/16 15:11	1
Pyrene	ND		4.6	0.31	ug/L		05/24/16 08:18	05/25/16 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	75		46 - 120	05/24/16 08:18	05/25/16 15:11	1
Phenol-d5 (Surr)	18		16 - 120	05/24/16 08:18	05/25/16 15:11	1
p-Terphenyl-d14 (Surr)	67		67 - 150	05/24/16 08:18	05/25/16 15:11	1
2,4,6-Tribromophenol (Surr)	78		52 - 132	05/24/16 08:18	05/25/16 15:11	1
2-Fluorobiphenyl	80		48 - 120	05/24/16 08:18	05/25/16 15:11	1
2-Fluorophenol (Surr)	29		20 - 120	05/24/16 08:18	05/25/16 15:11	1

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.23	0.042	ug/L		05/24/16 08:02	05/25/16 12:36	5
<b>4,4'-DDE</b>	<b>0.080</b>	<b>J</b>	0.23	0.053	ug/L		05/24/16 08:02	05/25/16 12:36	5
4,4'-DDT	ND		0.23	0.050	ug/L		05/24/16 08:02	05/25/16 12:36	5
Aldrin	ND		0.23	0.037	ug/L		05/24/16 08:02	05/25/16 12:36	5
alpha-BHC	ND		0.23	0.035	ug/L		05/24/16 08:02	05/25/16 12:36	5
alpha-Chlordane	ND		0.23	0.067	ug/L		05/24/16 08:02	05/25/16 12:36	5
beta-BHC	ND		0.23	0.11	ug/L		05/24/16 08:02	05/25/16 12:36	5
delta-BHC	ND		0.23	0.046	ug/L		05/24/16 08:02	05/25/16 12:36	5
Dieldrin	ND		0.23	0.045	ug/L		05/24/16 08:02	05/25/16 12:36	5
Endosulfan I	ND		0.23	0.050	ug/L		05/24/16 08:02	05/25/16 12:36	5
Endosulfan II	ND		0.23	0.055	ug/L		05/24/16 08:02	05/25/16 12:36	5
Endosulfan sulfate	ND		0.23	0.071	ug/L		05/24/16 08:02	05/25/16 12:36	5
Endrin	ND		0.23	0.063	ug/L		05/24/16 08:02	05/25/16 12:36	5
Endrin aldehyde	ND		0.23	0.074	ug/L		05/24/16 08:02	05/25/16 12:36	5
Endrin ketone	ND		0.23	0.055	ug/L		05/24/16 08:02	05/25/16 12:36	5
<b>gamma-BHC (Lindane)</b>	<b>0.051</b>	<b>J B</b>	0.23	0.036	ug/L		05/24/16 08:02	05/25/16 12:36	5
gamma-Chlordane	ND		0.23	0.050	ug/L		05/24/16 08:02	05/25/16 12:36	5

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

**Client Sample ID: BASEMENT SURFACE WATER SAMPLE**

**Lab Sample ID: 480-100535-1**

Date Collected: 05/20/16 15:00

Matrix: Water

Date Received: 05/23/16 13:50

**Method: 8081B - Organochlorine Pesticides (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.23	0.039	ug/L		05/24/16 08:02	05/25/16 12:36	5
Heptachlor epoxide	ND		0.23	0.034	ug/L		05/24/16 08:02	05/25/16 12:36	5
Methoxychlor	ND		0.23	0.064	ug/L		05/24/16 08:02	05/25/16 12:36	5
Toxaphene	ND		2.3	0.55	ug/L		05/24/16 08:02	05/25/16 12:36	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	461	X	20 - 120				05/24/16 08:02	05/25/16 12:36	5
Tetrachloro-m-xylene	619	X	36 - 120				05/24/16 08:02	05/25/16 12:36	5

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.47	0.16	ug/L		05/24/16 08:09	05/24/16 20:59	1
PCB-1221	ND		0.47	0.16	ug/L		05/24/16 08:09	05/24/16 20:59	1
PCB-1232	ND		0.47	0.16	ug/L		05/24/16 08:09	05/24/16 20:59	1
PCB-1242	ND		0.47	0.16	ug/L		05/24/16 08:09	05/24/16 20:59	1
<b>PCB-1248</b>	<b>0.16</b>	<b>J</b>	0.47	0.16	ug/L		05/24/16 08:09	05/24/16 20:59	1
PCB-1254	ND		0.47	0.23	ug/L		05/24/16 08:09	05/24/16 20:59	1
PCB-1260	ND		0.47	0.23	ug/L		05/24/16 08:09	05/24/16 20:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	101		24 - 137				05/24/16 08:09	05/24/16 20:59	1
DCB Decachlorobiphenyl	69		19 - 125				05/24/16 08:09	05/24/16 20:59	1

**Method: 8151A - Herbicides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.065	ug/L		05/24/16 10:19	05/25/16 17:58	1
Silvex (2,4,5-TP)	ND		0.48	0.048	ug/L		05/24/16 10:19	05/25/16 17:58	1
2,4-D	ND		0.48	0.16	ug/L		05/24/16 10:19	05/25/16 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	77		35 - 143				05/24/16 10:19	05/25/16 17:58	1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		05/24/16 08:10	05/25/16 01:34	1
Antimony	ND		0.020		mg/L		05/24/16 08:10	05/25/16 01:34	1
Arsenic	ND		0.015		mg/L		05/24/16 08:10	05/25/16 01:34	1
<b>Barium</b>	<b>0.010</b>		0.0020		mg/L		05/24/16 08:10	05/25/16 01:34	1
Beryllium	ND		0.0020		mg/L		05/24/16 08:10	05/25/16 01:34	1
Cadmium	ND		0.0020		mg/L		05/24/16 08:10	05/25/16 01:34	1
<b>Calcium</b>	<b>200</b>		0.50		mg/L		05/24/16 08:10	05/25/16 01:34	1
Chromium	ND		0.0040		mg/L		05/24/16 08:10	05/25/16 01:34	1
Cobalt	ND		0.0040		mg/L		05/24/16 08:10	05/25/16 01:34	1
Copper	ND		0.010		mg/L		05/24/16 08:10	05/25/16 01:34	1
<b>Iron</b>	<b>2.7</b>		0.050		mg/L		05/24/16 08:10	05/25/16 13:01	1
Lead	ND		0.010		mg/L		05/24/16 08:10	05/25/16 01:34	1
<b>Magnesium</b>	<b>36.9</b>		0.20		mg/L		05/24/16 08:10	05/25/16 01:34	1
<b>Manganese</b>	<b>0.42</b>		0.0030		mg/L		05/24/16 08:10	05/25/16 01:34	1
<b>Nickel</b>	<b>0.059</b>		0.010		mg/L		05/24/16 08:10	05/25/16 01:34	1
<b>Potassium</b>	<b>80.8</b>		0.50		mg/L		05/24/16 08:10	05/25/16 13:01	1
Selenium	ND		0.025		mg/L		05/24/16 08:10	05/25/16 01:34	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

**Client Sample ID: BASEMENT SURFACE WATER SAMPLE**

**Lab Sample ID: 480-100535-1**

Date Collected: 05/20/16 15:00

Matrix: Water

Date Received: 05/23/16 13:50

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0060		mg/L		05/24/16 08:10	05/25/16 01:34	1
<b>Sodium</b>	<b>191</b>		1.0		mg/L		05/24/16 08:10	05/25/16 01:34	1
Thallium	ND		0.020		mg/L		05/24/16 08:10	05/25/16 01:34	1
Vanadium	ND		0.0050		mg/L		05/24/16 08:10	05/25/16 01:34	1
<b>Zinc</b>	<b>0.045</b>		0.010		mg/L		05/24/16 08:10	05/25/16 01:34	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/25/16 08:25	05/25/16 12:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		05/24/16 14:30	05/25/16 15:24	1

# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (71-126)	12DCE (66-137)	BFB (73-120)	DBFM (60-140)
480-100535-1	BASEMENT SURFACE WATER SA	95	101	104	92
LCS 480-303434/28	Lab Control Sample	96	96	105	91
MB 480-303434/7	Method Blank	95	99	102	90

### Surrogate Legend

TOL = Toluene-d8 (Surr)  
 12DCE = 1,2-Dichloroethane-d4 (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (46-120)	PHL (16-120)	TPH (67-150)	TBP (52-132)	FBP (48-120)	2FP (20-120)
480-100535-1	BASEMENT SURFACE WATER SA	75	18	67	78	80	29
LCS 480-303303/2-A	Lab Control Sample	83	48	95	119	86	64
MB 480-303303/1-A	Method Blank	85	42	95	108	87	57

### Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)  
 PHL = Phenol-d5 (Surr)  
 TPH = p-Terphenyl-d14 (Surr)  
 TBP = 2,4,6-Tribromophenol (Surr)  
 FBP = 2-Fluorobiphenyl  
 2FP = 2-Fluorophenol (Surr)

## Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (20-120)	TCX2 (36-120)
480-100535-1	BASEMENT SURFACE WATER SA	461 X	619 X
LCS 480-303284/2-A	Lab Control Sample	67	101
LCSD 480-303284/3-A	Lab Control Sample Dup	74	111
MB 480-303284/1-A	Method Blank	60	98

### Surrogate Legend

DCB = DCB Decachlorobiphenyl  
 TCX = Tetrachloro-m-xylene

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (24-137)	DCB2 (19-125)
480-100535-1	BASEMENT SURFACE WATER SA	101	69

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# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (24-137)	DCB2 (19-125)
LCS 480-303288/2-A	Lab Control Sample	92	59
LCSD 480-303288/3-A	Lab Control Sample Dup	97	67
MB 480-303288/1-A	Method Blank	91	57

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

## Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPA1 (35-143)
480-100535-1	BASEMENT SURFACE WATER SA	77
LCS 480-303353/2-A	Lab Control Sample	118
LCSD 480-303353/3-A	Lab Control Sample Dup	98
MB 480-303353/1-A	Method Blank	95

#### Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 480-303434/7**

**Matrix: Water**

**Analysis Batch: 303434**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/24/16 22:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/24/16 22:27	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/24/16 22:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			05/24/16 22:27	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/24/16 22:27	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/24/16 22:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/24/16 22:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/24/16 22:27	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/24/16 22:27	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/24/16 22:27	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/24/16 22:27	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/24/16 22:27	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/24/16 22:27	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/24/16 22:27	1
2-Hexanone	ND		5.0	1.2	ug/L			05/24/16 22:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/24/16 22:27	1
Acetone	ND		10	3.0	ug/L			05/24/16 22:27	1
Benzene	ND		1.0	0.41	ug/L			05/24/16 22:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/24/16 22:27	1
Bromoform	ND		1.0	0.26	ug/L			05/24/16 22:27	1
Bromomethane	ND		1.0	0.69	ug/L			05/24/16 22:27	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/24/16 22:27	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/24/16 22:27	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/24/16 22:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/24/16 22:27	1
Chloroethane	ND		1.0	0.32	ug/L			05/24/16 22:27	1
Chloroform	ND		1.0	0.34	ug/L			05/24/16 22:27	1
Chloromethane	ND		1.0	0.35	ug/L			05/24/16 22:27	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/24/16 22:27	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/24/16 22:27	1
Cyclohexane	ND		1.0	0.18	ug/L			05/24/16 22:27	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/24/16 22:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/24/16 22:27	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/24/16 22:27	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/24/16 22:27	1
Methyl acetate	ND		2.5	1.3	ug/L			05/24/16 22:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/24/16 22:27	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/24/16 22:27	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/24/16 22:27	1
Styrene	ND		1.0	0.73	ug/L			05/24/16 22:27	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/24/16 22:27	1
Toluene	ND		1.0	0.51	ug/L			05/24/16 22:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/24/16 22:27	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/24/16 22:27	1
Trichloroethene	ND		1.0	0.46	ug/L			05/24/16 22:27	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/24/16 22:27	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/24/16 22:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/24/16 22:27	1

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	95		71 - 126		05/24/16 22:27	1
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		05/24/16 22:27	1
4-Bromofluorobenzene (Surr)	102		73 - 120		05/24/16 22:27	1
Dibromofluoromethane (Surr)	90		60 - 140		05/24/16 22:27	1

Lab Sample ID: LCS 480-303434/28

Matrix: Water

Analysis Batch: 303434

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.7		ug/L		103	70 - 126
1,1,2-Trichloroethane	25.0	26.2		ug/L		105	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.1		ug/L		80	52 - 148
1,1-Dichloroethane	25.0	22.6		ug/L		90	71 - 129
1,1-Dichloroethene	25.0	21.5		ug/L		86	58 - 121
1,2,4-Trichlorobenzene	25.0	25.1		ug/L		100	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.8		ug/L		111	56 - 134
1,2-Dichlorobenzene	25.0	23.8		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	25.8		ug/L		103	75 - 127
1,2-Dichloropropane	25.0	22.4		ug/L		90	76 - 120
1,3-Dichlorobenzene	25.0	23.1		ug/L		93	77 - 120
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	75 - 120
2-Butanone (MEK)	125	100		ug/L		80	57 - 140
2-Hexanone	125	126		ug/L		101	65 - 127
4-Methyl-2-pentanone (MIBK)	125	127		ug/L		102	71 - 125
Acetone	125	106		ug/L		85	56 - 142
Benzene	25.0	23.3		ug/L		93	71 - 124
Bromodichloromethane	25.0	26.4		ug/L		105	80 - 122
Bromoform	25.0	25.7		ug/L		103	52 - 132
Bromomethane	25.0	27.4		ug/L		110	55 - 144
Carbon disulfide	25.0	22.4		ug/L		90	59 - 134
Carbon tetrachloride	25.0	25.4		ug/L		102	72 - 134
Chlorobenzene	25.0	24.4		ug/L		98	72 - 120
Dibromochloromethane	25.0	27.7		ug/L		111	75 - 125
Chloroethane	25.0	26.1		ug/L		104	69 - 136
Chloroform	25.0	25.1		ug/L		100	73 - 127
Chloromethane	25.0	21.3		ug/L		85	68 - 124
cis-1,2-Dichloroethene	25.0	22.7		ug/L		91	74 - 124
cis-1,3-Dichloropropene	25.0	25.1		ug/L		100	74 - 124
Cyclohexane	25.0	19.7		ug/L		79	59 - 135
Dichlorodifluoromethane	25.0	27.4		ug/L		109	59 - 135
Ethylbenzene	25.0	26.2		ug/L		105	77 - 123
1,2-Dibromoethane	25.0	24.8		ug/L		99	77 - 120
Isopropylbenzene	25.0	24.2		ug/L		97	77 - 122
Methyl acetate	125	104		ug/L		83	74 - 133
Methyl tert-butyl ether	25.0	24.1		ug/L		96	64 - 127
Methylcyclohexane	25.0	22.1		ug/L		88	61 - 138
Methylene Chloride	25.0	23.0		ug/L		92	57 - 132
Styrene	25.0	25.3		ug/L		101	70 - 130
Tetrachloroethene	25.0	23.3		ug/L		93	74 - 122
Toluene	25.0	24.2		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	21.8		ug/L		87	73 - 127

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-303434/28**

**Matrix: Water**

**Analysis Batch: 303434**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	25.0	27.7		ug/L		111	72 - 123
Trichloroethene	25.0	24.9		ug/L		100	74 - 123
Trichlorofluoromethane	25.0	26.5		ug/L		106	62 - 152
Vinyl chloride	25.0	22.5		ug/L		90	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	96		71 - 126
1,2-Dichloroethane-d4 (Surr)	96		66 - 137
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	91		60 - 140

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 480-303303/1-A**

**Matrix: Water**

**Analysis Batch: 303536**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303303**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		05/24/16 08:18	05/25/16 10:44	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		05/24/16 08:18	05/25/16 10:44	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		05/24/16 08:18	05/25/16 10:44	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		05/24/16 08:18	05/25/16 10:44	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		05/24/16 08:18	05/25/16 10:44	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		05/24/16 08:18	05/25/16 10:44	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		05/24/16 08:18	05/25/16 10:44	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		05/24/16 08:18	05/25/16 10:44	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		05/24/16 08:18	05/25/16 10:44	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		05/24/16 08:18	05/25/16 10:44	1
2-Chlorophenol	ND		5.0	0.53	ug/L		05/24/16 08:18	05/25/16 10:44	1
2-Methylphenol	ND		5.0	0.40	ug/L		05/24/16 08:18	05/25/16 10:44	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		05/24/16 08:18	05/25/16 10:44	1
2-Nitroaniline	ND		10	0.42	ug/L		05/24/16 08:18	05/25/16 10:44	1
2-Nitrophenol	ND		5.0	0.48	ug/L		05/24/16 08:18	05/25/16 10:44	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/24/16 08:18	05/25/16 10:44	1
3-Nitroaniline	ND		10	0.48	ug/L		05/24/16 08:18	05/25/16 10:44	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		05/24/16 08:18	05/25/16 10:44	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		05/24/16 08:18	05/25/16 10:44	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		05/24/16 08:18	05/25/16 10:44	1
4-Chloroaniline	ND		5.0	0.59	ug/L		05/24/16 08:18	05/25/16 10:44	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		05/24/16 08:18	05/25/16 10:44	1
4-Methylphenol	ND		10	0.36	ug/L		05/24/16 08:18	05/25/16 10:44	1
4-Nitroaniline	ND		10	0.25	ug/L		05/24/16 08:18	05/25/16 10:44	1
4-Nitrophenol	ND		10	1.5	ug/L		05/24/16 08:18	05/25/16 10:44	1
Acenaphthene	ND		5.0	0.41	ug/L		05/24/16 08:18	05/25/16 10:44	1
Acenaphthylene	ND		5.0	0.38	ug/L		05/24/16 08:18	05/25/16 10:44	1
Acetophenone	ND		5.0	0.54	ug/L		05/24/16 08:18	05/25/16 10:44	1
Anthracene	ND		5.0	0.28	ug/L		05/24/16 08:18	05/25/16 10:44	1
Atrazine	ND		5.0	0.46	ug/L		05/24/16 08:18	05/25/16 10:44	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-303303/1-A

Matrix: Water

Analysis Batch: 303536

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 303303

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzaldehyde	0.325	J	5.0	0.27	ug/L		05/24/16 08:18	05/25/16 10:44	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		05/24/16 08:18	05/25/16 10:44	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		05/24/16 08:18	05/25/16 10:44	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		05/24/16 08:18	05/25/16 10:44	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		05/24/16 08:18	05/25/16 10:44	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		05/24/16 08:18	05/25/16 10:44	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		05/24/16 08:18	05/25/16 10:44	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		05/24/16 08:18	05/25/16 10:44	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		05/24/16 08:18	05/25/16 10:44	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		05/24/16 08:18	05/25/16 10:44	1
Caprolactam	ND		5.0	2.2	ug/L		05/24/16 08:18	05/25/16 10:44	1
Carbazole	ND		5.0	0.30	ug/L		05/24/16 08:18	05/25/16 10:44	1
Chrysene	ND		5.0	0.33	ug/L		05/24/16 08:18	05/25/16 10:44	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		05/24/16 08:18	05/25/16 10:44	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		05/24/16 08:18	05/25/16 10:44	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		05/24/16 08:18	05/25/16 10:44	1
Dibenzofuran	ND		10	0.51	ug/L		05/24/16 08:18	05/25/16 10:44	1
Diethyl phthalate	ND		5.0	0.22	ug/L		05/24/16 08:18	05/25/16 10:44	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/24/16 08:18	05/25/16 10:44	1
Fluoranthene	ND		5.0	0.40	ug/L		05/24/16 08:18	05/25/16 10:44	1
Fluorene	ND		5.0	0.36	ug/L		05/24/16 08:18	05/25/16 10:44	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		05/24/16 08:18	05/25/16 10:44	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		05/24/16 08:18	05/25/16 10:44	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		05/24/16 08:18	05/25/16 10:44	1
Hexachloroethane	ND		5.0	0.59	ug/L		05/24/16 08:18	05/25/16 10:44	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		05/24/16 08:18	05/25/16 10:44	1
Isophorone	ND		5.0	0.43	ug/L		05/24/16 08:18	05/25/16 10:44	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		05/24/16 08:18	05/25/16 10:44	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/24/16 08:18	05/25/16 10:44	1
Naphthalene	ND		5.0	0.76	ug/L		05/24/16 08:18	05/25/16 10:44	1
Nitrobenzene	ND		5.0	0.29	ug/L		05/24/16 08:18	05/25/16 10:44	1
Pentachlorophenol	ND		10	2.2	ug/L		05/24/16 08:18	05/25/16 10:44	1
Phenanthrene	ND		5.0	0.44	ug/L		05/24/16 08:18	05/25/16 10:44	1
Phenol	ND		5.0	0.39	ug/L		05/24/16 08:18	05/25/16 10:44	1
Pyrene	ND		5.0	0.34	ug/L		05/24/16 08:18	05/25/16 10:44	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5 (Surr)	85		46 - 120	05/24/16 08:18	05/25/16 10:44	1
Phenol-d5 (Surr)	42		16 - 120	05/24/16 08:18	05/25/16 10:44	1
p-Terphenyl-d14 (Surr)	95		67 - 150	05/24/16 08:18	05/25/16 10:44	1
2,4,6-Tribromophenol (Surr)	108		52 - 132	05/24/16 08:18	05/25/16 10:44	1
2-Fluorobiphenyl	87		48 - 120	05/24/16 08:18	05/25/16 10:44	1
2-Fluorophenol (Surr)	57		20 - 120	05/24/16 08:18	05/25/16 10:44	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-303303/2-A**

**Matrix: Water**

**Analysis Batch: 303536**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303303**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	16.0	13.9		ug/L		87	30 - 140
bis (2-chloroisopropyl) ether	16.0	11.9		ug/L		74	28 - 136
2,4,5-Trichlorophenol	16.0	15.9		ug/L		99	65 - 126
2,4,6-Trichlorophenol	16.0	16.1		ug/L		100	64 - 120
2,4-Dichlorophenol	16.0	16.6		ug/L		104	64 - 120
2,4-Dimethylphenol	16.0	14.1		ug/L		88	57 - 120
2,4-Dinitrophenol	32.0	37.9		ug/L		118	42 - 153
2,4-Dinitrotoluene	16.0	17.0		ug/L		106	65 - 154
2,6-Dinitrotoluene	16.0	16.5		ug/L		103	74 - 134
2-Chloronaphthalene	16.0	14.1		ug/L		88	41 - 124
2-Chlorophenol	16.0	13.1		ug/L		82	48 - 120
2-Methylphenol	16.0	12.9		ug/L		80	39 - 120
2-Methylnaphthalene	16.0	15.0		ug/L		94	34 - 122
2-Nitroaniline	16.0	14.5		ug/L		91	67 - 136
2-Nitrophenol	16.0	16.1		ug/L		101	59 - 120
3,3'-Dichlorobenzidine	32.0	37.2		ug/L		116	33 - 140
3-Nitroaniline	16.0	14.1		ug/L		88	28 - 130
4,6-Dinitro-2-methylphenol	32.0	37.3		ug/L		117	64 - 159
4-Bromophenyl phenyl ether	16.0	16.3		ug/L		102	71 - 126
4-Chloro-3-methylphenol	16.0	15.9		ug/L		100	64 - 120
4-Chloroaniline	16.0	12.1		ug/L		76	10 - 130
4-Chlorophenyl phenyl ether	16.0	15.9		ug/L		100	71 - 122
4-Methylphenol	16.0	12.8		ug/L		80	39 - 120
4-Nitroaniline	16.0	15.8		ug/L		99	47 - 130
4-Nitrophenol	32.0	28.2		ug/L		88	16 - 120
Acenaphthene	16.0	14.5		ug/L		91	60 - 120
Acenaphthylene	16.0	14.4		ug/L		90	63 - 120
Acetophenone	16.0	14.8		ug/L		93	45 - 120
Anthracene	16.0	14.4		ug/L		90	58 - 148
Atrazine	32.0	37.8		ug/L		118	56 - 179
Benzaldehyde	32.0	61.0	E *	ug/L		190	30 - 140
Benzo[a]anthracene	16.0	14.9		ug/L		93	55 - 151
Benzo[a]pyrene	16.0	15.4		ug/L		96	60 - 145
Benzo[b]fluoranthene	16.0	16.4		ug/L		103	54 - 140
Benzo[g,h,i]perylene	16.0	16.8		ug/L		105	66 - 152
Benzo[k]fluoranthene	16.0	15.1		ug/L		94	51 - 153
Bis(2-chloroethoxy)methane	16.0	13.9		ug/L		87	50 - 128
Bis(2-chloroethyl)ether	16.0	12.4		ug/L		78	51 - 120
Bis(2-ethylhexyl) phthalate	16.0	14.5		ug/L		91	53 - 158
Butyl benzyl phthalate	16.0	14.2		ug/L		89	58 - 163
Caprolactam	32.0	12.1		ug/L		38	14 - 130
Carbazole	16.0	15.2		ug/L		95	59 - 148
Chrysene	16.0	15.1		ug/L		94	69 - 140
Dibenz(a,h)anthracene	16.0	16.0		ug/L		100	57 - 148
Di-n-butyl phthalate	16.0	15.9		ug/L		99	58 - 149
Di-n-octyl phthalate	16.0	14.5		ug/L		91	55 - 167
Dibenzofuran	16.0	15.1		ug/L		95	49 - 137
Diethyl phthalate	16.0	16.4		ug/L		102	59 - 146

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-303303/2-A**

**Matrix: Water**

**Analysis Batch: 303536**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303303**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	16.0	17.7		ug/L		110	59 - 141
Fluoranthene	16.0	16.3		ug/L		102	55 - 147
Fluorene	16.0	15.2		ug/L		95	55 - 143
Hexachlorobenzene	16.0	16.4		ug/L		102	14 - 130
Hexachlorobutadiene	16.0	15.5		ug/L		97	14 - 130
Hexachlorocyclopentadiene	16.0	12.6		ug/L		79	13 - 130
Hexachloroethane	16.0	12.5		ug/L		78	14 - 130
Indeno[1,2,3-cd]pyrene	16.0	16.7		ug/L		105	69 - 146
Isophorone	16.0	13.7		ug/L		86	48 - 133
N-Nitrosodi-n-propylamine	16.0	13.6		ug/L		85	56 - 120
Naphthalene	16.0	14.2		ug/L		89	35 - 130
Nitrobenzene	16.0	14.0		ug/L		87	45 - 123
Pentachlorophenol	32.0	33.1		ug/L		104	39 - 136
Phenanthrene	16.0	14.7		ug/L		92	57 - 147
Phenol	16.0	8.64		ug/L		54	17 - 120
Pyrene	16.0	14.5		ug/L		91	58 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	83		46 - 120
Phenol-d5 (Surr)	48		16 - 120
p-Terphenyl-d14 (Surr)	95		67 - 150
2,4,6-Tribromophenol (Surr)	119		52 - 132
2-Fluorobiphenyl	86		48 - 120
2-Fluorophenol (Surr)	64		20 - 120

## Method: 8081B - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 480-303284/1-A**

**Matrix: Water**

**Analysis Batch: 303506**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303284**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		05/24/16 08:02	05/25/16 09:40	1
4,4'-DDE	ND		0.050	0.012	ug/L		05/24/16 08:02	05/25/16 09:40	1
4,4'-DDT	ND		0.050	0.011	ug/L		05/24/16 08:02	05/25/16 09:40	1
Aldrin	ND		0.050	0.0081	ug/L		05/24/16 08:02	05/25/16 09:40	1
alpha-BHC	0.0119	J	0.050	0.0077	ug/L		05/24/16 08:02	05/25/16 09:40	1
alpha-Chlordane	ND		0.050	0.015	ug/L		05/24/16 08:02	05/25/16 09:40	1
beta-BHC	ND		0.050	0.025	ug/L		05/24/16 08:02	05/25/16 09:40	1
delta-BHC	ND		0.050	0.010	ug/L		05/24/16 08:02	05/25/16 09:40	1
Dieldrin	ND		0.050	0.0098	ug/L		05/24/16 08:02	05/25/16 09:40	1
Endosulfan I	ND		0.050	0.011	ug/L		05/24/16 08:02	05/25/16 09:40	1
Endosulfan II	ND		0.050	0.012	ug/L		05/24/16 08:02	05/25/16 09:40	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		05/24/16 08:02	05/25/16 09:40	1
Endrin	ND		0.050	0.014	ug/L		05/24/16 08:02	05/25/16 09:40	1
Endrin aldehyde	ND		0.050	0.016	ug/L		05/24/16 08:02	05/25/16 09:40	1
Endrin ketone	ND		0.050	0.012	ug/L		05/24/16 08:02	05/25/16 09:40	1
gamma-BHC (Lindane)	0.00936	J	0.050	0.0080	ug/L		05/24/16 08:02	05/25/16 09:40	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: MB 480-303284/1-A**

**Matrix: Water**

**Analysis Batch: 303506**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303284**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane	ND		0.050	0.011	ug/L		05/24/16 08:02	05/25/16 09:40	1
Heptachlor	ND		0.050	0.0085	ug/L		05/24/16 08:02	05/25/16 09:40	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		05/24/16 08:02	05/25/16 09:40	1
Methoxychlor	ND		0.050	0.014	ug/L		05/24/16 08:02	05/25/16 09:40	1
Toxaphene	ND		0.50	0.12	ug/L		05/24/16 08:02	05/25/16 09:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	60		20 - 120	05/24/16 08:02	05/25/16 09:40	1
Tetrachloro-m-xylene	98		36 - 120	05/24/16 08:02	05/25/16 09:40	1

**Lab Sample ID: LCS 480-303284/2-A**

**Matrix: Water**

**Analysis Batch: 303506**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303284**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.400	0.490		ug/L		123	51 - 138
4,4'-DDE	0.400	0.424		ug/L		106	45 - 133
4,4'-DDT	0.400	0.350		ug/L		87	50 - 136
Aldrin	0.400	0.314		ug/L		78	40 - 125
alpha-BHC	0.400	0.354		ug/L		88	52 - 125
alpha-Chlordane	0.400	0.342		ug/L		86	52 - 133
beta-BHC	0.400	0.403		ug/L		101	51 - 135
delta-BHC	0.400	0.410		ug/L		102	51 - 132
Dieldrin	0.400	0.480		ug/L		120	49 - 136
Endosulfan I	0.400	0.443		ug/L		111	51 - 134
Endosulfan II	0.400	0.445		ug/L		111	52 - 138
Endosulfan sulfate	0.400	0.397		ug/L		99	47 - 136
Endrin	0.400	0.485		ug/L		121	52 - 143
Endrin aldehyde	0.400	0.471		ug/L		118	46 - 134
Endrin ketone	0.400	0.433		ug/L		108	51 - 138
gamma-BHC (Lindane)	0.400	0.348		ug/L		87	56 - 127
gamma-Chlordane	0.400	0.401		ug/L		100	52 - 128
Heptachlor	0.400	0.444		ug/L		111	51 - 125
Heptachlor epoxide	0.400	0.458		ug/L		115	50 - 140
Methoxychlor	0.400	0.523		ug/L		131	50 - 151

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	67		20 - 120
Tetrachloro-m-xylene	101		36 - 120

**Lab Sample ID: LCSD 480-303284/3-A**

**Matrix: Water**

**Analysis Batch: 303506**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 303284**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
4,4'-DDD	0.400	0.536		ug/L		134	51 - 138	9	23
4,4'-DDE	0.400	0.478		ug/L		120	45 - 133	12	22
4,4'-DDT	0.400	0.352		ug/L		88	50 - 136	1	24

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 480-303284/3-A

Matrix: Water

Analysis Batch: 303506

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 303284

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Aldrin	0.400	0.376		ug/L		94	40 - 125	18	25	
alpha-BHC	0.400	0.387		ug/L		97	52 - 125	9	24	
alpha-Chlordane	0.400	0.366		ug/L		92	52 - 133	7	23	
beta-BHC	0.400	0.464		ug/L		116	51 - 135	14	24	
delta-BHC	0.400	0.456		ug/L		114	51 - 132	11	24	
Dieldrin	0.400	0.534		ug/L		134	49 - 136	11	24	
Endosulfan I	0.400	0.475		ug/L		119	51 - 134	7	30	
Endosulfan II	0.400	0.485		ug/L		121	52 - 138	9	40	
Endosulfan sulfate	0.400	0.394		ug/L		98	47 - 136	1	24	
Endrin	0.400	0.537		ug/L		134	52 - 143	10	24	
Endrin aldehyde	0.400	0.519		ug/L		130	46 - 134	10	28	
Endrin ketone	0.400	0.443		ug/L		111	51 - 138	2	26	
gamma-BHC (Lindane)	0.400	0.355		ug/L		89	56 - 127	2	24	
gamma-Chlordane	0.400	0.442		ug/L		111	52 - 128	10	24	
Heptachlor	0.400	0.474		ug/L		119	51 - 125	7	25	
Heptachlor epoxide	0.400	0.503		ug/L		126	50 - 140	9	23	
Methoxychlor	0.400	0.531		ug/L		133	50 - 151	2	26	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	74		20 - 120
Tetrachloro-m-xylene	111		36 - 120

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-303288/1-A

Matrix: Water

Analysis Batch: 303451

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 303288

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.50	0.18	ug/L		05/24/16 08:09	05/24/16 20:07	1
PCB-1221	ND		0.50	0.18	ug/L		05/24/16 08:09	05/24/16 20:07	1
PCB-1232	ND		0.50	0.18	ug/L		05/24/16 08:09	05/24/16 20:07	1
PCB-1242	ND		0.50	0.18	ug/L		05/24/16 08:09	05/24/16 20:07	1
PCB-1248	ND		0.50	0.18	ug/L		05/24/16 08:09	05/24/16 20:07	1
PCB-1254	ND		0.50	0.25	ug/L		05/24/16 08:09	05/24/16 20:07	1
PCB-1260	ND		0.50	0.25	ug/L		05/24/16 08:09	05/24/16 20:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		24 - 137	05/24/16 08:09	05/24/16 20:07	1
DCB Decachlorobiphenyl	57		19 - 125	05/24/16 08:09	05/24/16 20:07	1

Lab Sample ID: LCS 480-303288/2-A

Matrix: Water

Analysis Batch: 303451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 303288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							RPD	Limit
PCB-1016	4.00	4.24		ug/L		106	62 - 130	

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCS 480-303288/2-A**

**Matrix: Water**

**Analysis Batch: 303451**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303288**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1260	4.00	3.88		ug/L		97	56 - 123
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
Tetrachloro-m-xylene	92		24 - 137				
DCB Decachlorobiphenyl	59		19 - 125				

**Lab Sample ID: LCSD 480-303288/3-A**

**Matrix: Water**

**Analysis Batch: 303451**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 303288**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	4.00	4.42		ug/L		110	62 - 130	4	50
PCB-1260	4.00	4.05		ug/L		101	56 - 123	4	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
Tetrachloro-m-xylene	97		24 - 137						
DCB Decachlorobiphenyl	67		19 - 125						

## Method: 8151A - Herbicides (GC)

**Lab Sample ID: MB 480-303353/1-A**

**Matrix: Water**

**Analysis Batch: 303593**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303353**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.068	ug/L		05/24/16 10:19	05/25/16 14:27	1
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		05/24/16 10:19	05/25/16 14:27	1
2,4-D	ND		0.50	0.17	ug/L		05/24/16 10:19	05/25/16 14:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4-Dichlorophenylacetic acid	95		35 - 143				05/24/16 10:19	05/25/16 14:27	1

**Lab Sample ID: LCS 480-303353/2-A**

**Matrix: Water**

**Analysis Batch: 303593**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303353**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	2.00	1.47		ug/L		74	29 - 165
Silvex (2,4,5-TP)	2.00	1.56		ug/L		78	49 - 167
2,4-D	2.00	1.64		ug/L		82	36 - 179
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
2,4-Dichlorophenylacetic acid	118		35 - 143				

TestAmerica Buffalo



# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 480-303353/3-A  
 Matrix: Water  
 Analysis Batch: 303593

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 303353

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	2.00	1.59		ug/L		80	29 - 165	8	50
Silvex (2,4,5-TP)	2.00	1.77		ug/L		88	49 - 167	12	50
2,4-D	2.00	2.62		ug/L		131	36 - 179	46	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	98		35 - 143

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-303272/1-A  
 Matrix: Water  
 Analysis Batch: 303555

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 303272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		05/24/16 08:10	05/25/16 00:21	1
Antimony	ND		0.020		mg/L		05/24/16 08:10	05/25/16 00:21	1
Arsenic	ND		0.015		mg/L		05/24/16 08:10	05/25/16 00:21	1
Barium	ND		0.0020		mg/L		05/24/16 08:10	05/25/16 00:21	1
Beryllium	ND		0.0020		mg/L		05/24/16 08:10	05/25/16 00:21	1
Cadmium	ND		0.0020		mg/L		05/24/16 08:10	05/25/16 00:21	1
Calcium	ND		0.50		mg/L		05/24/16 08:10	05/25/16 00:21	1
Chromium	ND		0.0040		mg/L		05/24/16 08:10	05/25/16 00:21	1
Cobalt	ND		0.0040		mg/L		05/24/16 08:10	05/25/16 00:21	1
Copper	ND		0.010		mg/L		05/24/16 08:10	05/25/16 00:21	1
Iron	ND		0.050		mg/L		05/24/16 08:10	05/25/16 00:21	1
Lead	ND		0.010		mg/L		05/24/16 08:10	05/25/16 00:21	1
Magnesium	ND		0.20		mg/L		05/24/16 08:10	05/25/16 00:21	1
Manganese	ND		0.0030		mg/L		05/24/16 08:10	05/25/16 00:21	1
Nickel	ND		0.010		mg/L		05/24/16 08:10	05/25/16 00:21	1
Potassium	ND	^	0.50		mg/L		05/24/16 08:10	05/25/16 00:21	1
Selenium	ND		0.025		mg/L		05/24/16 08:10	05/25/16 00:21	1
Silver	ND		0.0060		mg/L		05/24/16 08:10	05/25/16 00:21	1
Sodium	ND		1.0		mg/L		05/24/16 08:10	05/25/16 00:21	1
Thallium	ND		0.020		mg/L		05/24/16 08:10	05/25/16 00:21	1
Vanadium	ND		0.0050		mg/L		05/24/16 08:10	05/25/16 00:21	1
Zinc	ND		0.010		mg/L		05/24/16 08:10	05/25/16 00:21	1

Lab Sample ID: LCS 480-303272/2-A  
 Matrix: Water  
 Analysis Batch: 303555

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 303272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.62		mg/L		96	80 - 120
Antimony	0.200	0.193		mg/L		97	80 - 120
Arsenic	0.200	0.203		mg/L		101	80 - 120
Barium	0.200	0.211		mg/L		105	80 - 120
Beryllium	0.200	0.203		mg/L		102	80 - 120
Cadmium	0.200	0.197		mg/L		98	80 - 120

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-303272/2-A

Matrix: Water

Analysis Batch: 303555

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 303272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	10.0	10.27		mg/L		103	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.200	0.196		mg/L		98	80 - 120
Copper	0.200	0.208		mg/L		104	80 - 120
Iron	10.0	10.04		mg/L		100	80 - 120
Lead	0.200	0.205		mg/L		102	80 - 120
Magnesium	10.0	10.55		mg/L		106	80 - 120
Manganese	0.200	0.205		mg/L		103	80 - 120
Nickel	0.200	0.200		mg/L		100	80 - 120
Selenium	0.200	0.199		mg/L		100	80 - 120
Silver	0.0500	0.0535		mg/L		107	80 - 120
Sodium	10.0	10.19		mg/L		102	80 - 120
Thallium	0.200	0.202		mg/L		101	80 - 120
Vanadium	0.200	0.208		mg/L		104	80 - 120
Zinc	0.200	0.201		mg/L		101	80 - 120

Lab Sample ID: LCS 480-303272/2-A

Matrix: Water

Analysis Batch: 303644

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 303272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	10.35		mg/L		103	80 - 120

Lab Sample ID: 480-100535-1 MS

Matrix: Water

Analysis Batch: 303555

Client Sample ID: BASEMENT SURFACE WATER SAMPLE

Prep Type: Total/NA

Prep Batch: 303272

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		10.0	9.62		mg/L		96	75 - 125
Antimony	ND		0.200	0.201		mg/L		101	75 - 125
Arsenic	ND		0.200	0.221		mg/L		111	75 - 125
Barium	0.010		0.200	0.218		mg/L		104	75 - 125
Beryllium	ND		0.200	0.207		mg/L		104	75 - 125
Cadmium	ND		0.200	0.208		mg/L		104	75 - 125
Calcium	200		10.0	211.9	4	mg/L		115	75 - 125
Chromium	ND		0.200	0.209		mg/L		104	75 - 125
Cobalt	ND		0.200	0.210		mg/L		104	75 - 125
Copper	ND		0.200	0.219		mg/L		110	75 - 125
Lead	ND		0.200	0.219		mg/L		108	75 - 125
Magnesium	36.9		10.0	47.40		mg/L		105	75 - 125
Manganese	0.42		0.200	0.616		mg/L		100	75 - 125
Nickel	0.059		0.200	0.272		mg/L		107	75 - 125
Selenium	ND		0.200	0.221		mg/L		111	75 - 125
Silver	ND		0.0500	0.0567		mg/L		113	75 - 125
Sodium	191		10.0	201.8	4	mg/L		106	75 - 125
Thallium	ND		0.200	0.203		mg/L		102	75 - 125
Vanadium	ND		0.200	0.215		mg/L		108	75 - 125
Zinc	0.045		0.200	0.247		mg/L		101	75 - 125

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: 480-100535-1 MS**

**Matrix: Water**

**Analysis Batch: 303644**

**Client Sample ID: BASEMENT SURFACE WATER SAMPLE**

**Prep Type: Total/NA**

**Prep Batch: 303272**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	2.7		10.0	12.80		mg/L		101	75 - 125
Potassium	80.8		10.0	91.29	4	mg/L		105	75 - 125

**Lab Sample ID: 480-100535-1 MSD**

**Matrix: Water**

**Analysis Batch: 303555**

**Client Sample ID: BASEMENT SURFACE WATER SAMPLE**

**Prep Type: Total/NA**

**Prep Batch: 303272**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.89		mg/L		99	75 - 125	3	20
Antimony	ND		0.200	0.204		mg/L		102	75 - 125	2	20
Arsenic	ND		0.200	0.225		mg/L		113	75 - 125	2	20
Barium	0.010		0.200	0.223		mg/L		106	75 - 125	2	20
Beryllium	ND		0.200	0.211		mg/L		105	75 - 125	2	20
Cadmium	ND		0.200	0.211		mg/L		106	75 - 125	1	20
Calcium	200		10.0	216.3	4	mg/L		158	75 - 125	2	20
Chromium	ND		0.200	0.213		mg/L		107	75 - 125	2	20
Cobalt	ND		0.200	0.213		mg/L		106	75 - 125	1	20
Copper	ND		0.200	0.223		mg/L		112	75 - 125	2	20
Lead	ND		0.200	0.222		mg/L		109	75 - 125	1	20
Magnesium	36.9		10.0	48.21		mg/L		113	75 - 125	2	20
Manganese	0.42		0.200	0.629		mg/L		106	75 - 125	2	20
Nickel	0.059		0.200	0.277		mg/L		109	75 - 125	2	20
Selenium	ND		0.200	0.222		mg/L		111	75 - 125	0	20
Silver	ND		0.0500	0.0578		mg/L		116	75 - 125	2	20
Sodium	191		10.0	207.9	4	mg/L		167	75 - 125	3	20
Thallium	ND		0.200	0.207		mg/L		104	75 - 125	2	20
Vanadium	ND		0.200	0.222		mg/L		111	75 - 125	3	20
Zinc	0.045		0.200	0.254		mg/L		104	75 - 125	3	20

**Lab Sample ID: 480-100535-1 MSD**

**Matrix: Water**

**Analysis Batch: 303644**

**Client Sample ID: BASEMENT SURFACE WATER SAMPLE**

**Prep Type: Total/NA**

**Prep Batch: 303272**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	2.7		10.0	13.01		mg/L		103	75 - 125	2	20
Potassium	80.8		10.0	92.97	4	mg/L		122	75 - 125	2	20

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 480-303510/1-A**

**Matrix: Water**

**Analysis Batch: 303647**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303510**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/25/16 08:25	05/25/16 11:52	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: LCS 480-303510/2-A**

**Matrix: Water**

**Analysis Batch: 303647**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303510**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00725		mg/L		109	80 - 120

**Lab Sample ID: 480-100535-1 MS**

**Matrix: Water**

**Analysis Batch: 303647**

**Client Sample ID: BASEMENT SURFACE WATER SAMPLE**

**Prep Type: Total/NA**

**Prep Batch: 303510**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00712		mg/L		107	80 - 120

**Lab Sample ID: 480-100535-1 MSD**

**Matrix: Water**

**Analysis Batch: 303647**

**Client Sample ID: BASEMENT SURFACE WATER SAMPLE**

**Prep Type: Total/NA**

**Prep Batch: 303510**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00725		mg/L		109	80 - 120	2	20

## Method: 9012B - Cyanide, Total and/or Amenable

**Lab Sample ID: MB 480-303426/1-A**

**Matrix: Water**

**Analysis Batch: 303671**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303426**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		05/24/16 14:30	05/25/16 15:14	1

**Lab Sample ID: LCS 480-303426/2-A**

**Matrix: Water**

**Analysis Batch: 303671**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303426**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.251		mg/L		100	90 - 110

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## GC/MS VOA

### Analysis Batch: 303434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	8260C	
LCS 480-303434/28	Lab Control Sample	Total/NA	Water	8260C	
MB 480-303434/7	Method Blank	Total/NA	Water	8260C	

## GC/MS Semi VOA

### Prep Batch: 303303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	3510C	
LCS 480-303303/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-303303/1-A	Method Blank	Total/NA	Water	3510C	

### Analysis Batch: 303536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	8270D	303303
LCS 480-303303/2-A	Lab Control Sample	Total/NA	Water	8270D	303303
MB 480-303303/1-A	Method Blank	Total/NA	Water	8270D	303303

## GC Semi VOA

### Prep Batch: 303284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	3510C	
LCS 480-303284/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-303284/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 480-303284/1-A	Method Blank	Total/NA	Water	3510C	

### Prep Batch: 303288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	3510C	
LCS 480-303288/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-303288/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 480-303288/1-A	Method Blank	Total/NA	Water	3510C	

### Prep Batch: 303353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	8151A	
LCS 480-303353/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 480-303353/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
MB 480-303353/1-A	Method Blank	Total/NA	Water	8151A	

### Analysis Batch: 303451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	8082A	303288
LCS 480-303288/2-A	Lab Control Sample	Total/NA	Water	8082A	303288
LCSD 480-303288/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	303288
MB 480-303288/1-A	Method Blank	Total/NA	Water	8082A	303288

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## GC Semi VOA (Continued)

### Analysis Batch: 303506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	8081B	303284
LCS 480-303284/2-A	Lab Control Sample	Total/NA	Water	8081B	303284
LCS D 480-303284/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	303284
MB 480-303284/1-A	Method Blank	Total/NA	Water	8081B	303284

### Analysis Batch: 303593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	8151A	303353
LCS 480-303353/2-A	Lab Control Sample	Total/NA	Water	8151A	303353
LCS D 480-303353/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	303353
MB 480-303353/1-A	Method Blank	Total/NA	Water	8151A	303353

## Metals

### Prep Batch: 303272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	3005A	
480-100535-1 MS	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	3005A	
480-100535-1 MSD	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	3005A	
LCS 480-303272/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-303272/1-A	Method Blank	Total/NA	Water	3005A	

### Prep Batch: 303510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	7470A	
480-100535-1 MS	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	7470A	
480-100535-1 MSD	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	7470A	
LCS 480-303510/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-303510/1-A	Method Blank	Total/NA	Water	7470A	

### Analysis Batch: 303555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	6010C	303272
480-100535-1 MS	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	6010C	303272
480-100535-1 MSD	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	6010C	303272
LCS 480-303272/2-A	Lab Control Sample	Total/NA	Water	6010C	303272
MB 480-303272/1-A	Method Blank	Total/NA	Water	6010C	303272

### Analysis Batch: 303644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	6010C	303272
480-100535-1 MS	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	6010C	303272
480-100535-1 MSD	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	6010C	303272
LCS 480-303272/2-A	Lab Control Sample	Total/NA	Water	6010C	303272

### Analysis Batch: 303647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	7470A	303510
480-100535-1 MS	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	7470A	303510
480-100535-1 MSD	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	7470A	303510

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Metals (Continued)

### Analysis Batch: 303647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-303510/2-A	Lab Control Sample	Total/NA	Water	7470A	303510
MB 480-303510/1-A	Method Blank	Total/NA	Water	7470A	303510

## General Chemistry

### Prep Batch: 303426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	9012B	
LCS 480-303426/2-A	Lab Control Sample	Total/NA	Water	9012B	
MB 480-303426/1-A	Method Blank	Total/NA	Water	9012B	

### Analysis Batch: 303671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Total/NA	Water	9012B	303426
LCS 480-303426/2-A	Lab Control Sample	Total/NA	Water	9012B	303426
MB 480-303426/1-A	Method Blank	Total/NA	Water	9012B	303426

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

**Client Sample ID: BASEMENT SURFACE WATER SAMPLE**

**Lab Sample ID: 480-100535-1**

**Date Collected: 05/20/16 15:00**

**Matrix: Water**

**Date Received: 05/23/16 13:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	303434	05/25/16 04:00	GTG	TAL BUF
Total/NA	Prep	3510C			303303	05/24/16 08:18	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	303536	05/25/16 15:11	LMW	TAL BUF
Total/NA	Prep	3510C			303284	05/24/16 08:02	RMZ	TAL BUF
Total/NA	Analysis	8081B		5	303506	05/25/16 12:36	MAN	TAL BUF
Total/NA	Prep	3510C			303288	05/24/16 08:09	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303451	05/24/16 20:59	KS	TAL BUF
Total/NA	Prep	8151A			303353	05/24/16 10:19	RMZ	TAL BUF
Total/NA	Analysis	8151A		1	303593	05/25/16 17:58	JMO	TAL BUF
Total/NA	Prep	3005A			303272	05/24/16 08:10	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	303555	05/25/16 01:34	TRB	TAL BUF
Total/NA	Prep	3005A			303272	05/24/16 08:10	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	303644	05/25/16 13:01	TRB	TAL BUF
Total/NA	Prep	7470A			303510	05/25/16 08:25	JRK	TAL BUF
Total/NA	Analysis	7470A		1	303647	05/25/16 12:31	JRK	TAL BUF
Total/NA	Prep	9012B			303426	05/24/16 14:30	JJK	TAL BUF
Total/NA	Analysis	9012B		1	303671	05/25/16 15:24	JJK	TAL BUF

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Certification Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

## Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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# Method Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable	SW846	TAL BUF

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Sample Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Water	05/20/16 15:00	05/23/16 13:50

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**Chain of Custody Record**

Temperature on Receipt \_\_\_\_\_

Drinking Water? Yes  No

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

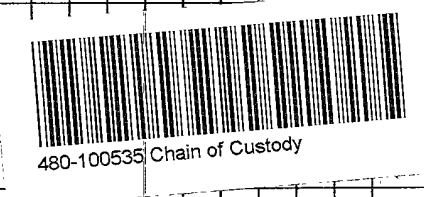
Client <b>TWAKEY environmental restoration</b>		Project Manager <b>Chris Boron</b>		Date <b>5/20/16</b>	Chain of Custody Number <b>290030</b>
Address <b>2558 Hamburg Pike Site 300</b>		Telephone Number (Area Code)/Fax Number <b>716-804-2726</b>		Lab Number	
City <b>Buffalo</b>	State <b>NY</b>	Zip Code <b>14218</b>	Site Contact <b>Nick Suraci</b>	Lab Contact <b>Brian Fischer</b>	

Project Name and Location (State)  
**Former Trico Plant 791 Washington Street**

Contract/Purchase Order/Quote No.

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives							Special Instructions/ Conditions of Receipt									
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TCL VOCs		TCL SVOCs	TCL Metals + CS-MILC	TCL PCB's	Pest+icides	HC/SLIPs				
Basement Surface Water Sample	5/20/16	15:00	X																				



Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal:  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:  24 Hours  48 Hours  7 Days  14 Days  21 Days  Other **Standard**

QC Requirements (Specify)

1. Relinquished By <i>[Signature]</i>	Date <b>5/20/16</b>	Time <b>13:30</b>	1. Received By <i>[Signature]</i>	Date <b>5/23/16</b>	Time <b>1135</b>
2. Relinquished By <i>[Signature]</i>	Date <b>5/20/16</b>	Time <b>1350</b>	2. Received By <i>[Signature]</i>	Date <b>5/23/16</b>	Time <b>1350</b>
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

**31 #1**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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5/31/2016



## Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-100535-1

**Login Number: 100535**

**List Number: 1**

**Creator: Janish, Carl M**

**List Source: TestAmerica Buffalo**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	bmtk
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-100681-1

Client Project/Site: Benchmark - 791 Washington St., Buffalo

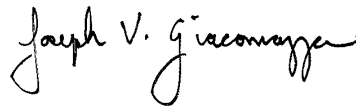
For:

Turnkey Environmental Restoration, LLC

2558 Hamburg Turnpike

Lackawanna, New York 14218

Attn: Mr. Christopher Z Boron



Authorized for release by:

6/7/2016 9:52:12 AM

Joe Giacomazza, Project Management Assistant II

[joe.giacomazza@testamericainc.com](mailto:joe.giacomazza@testamericainc.com)

Designee for

Brian Fischer, Manager of Project Management

(716)504-9835

[brian.fischer@testamericainc.com](mailto:brian.fischer@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



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[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits

### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

### General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# Case Narrative

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Job ID: 480-100681-1**

**Laboratory: TestAmerica Buffalo**

## Narrative

### Job Narrative 480-100681-1

#### Receipt

The samples were received on 5/25/2016 4:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 3.0° C.

#### Receipt Exceptions

Method(s) 5035, 8260C: The following sample was received outside of holding time: RI MW-2 (8-10) (480-100681-4).

#### GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-303681 recovered above the upper control limit for Carbon tetrachloride, Chloromethane, Trichlorofluoromethane and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: RI SB-18 (2-4) (480-100681-6), RI SB-19 (2-4) (480-100681-7) and BLIND DUP (480-100681-8).

Method(s) 8260C: The method blank for preparation batch 480-303699 contained Methylene Chloride above the reporting limit (RL). None of the samples associated with this method blank contained the target compound over the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples were not performed. The following samples are impacted: RI SB-18 (2-4) (480-100681-6), RI SB-19 (2-4) (480-100681-7) and BLIND DUP (480-100681-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-304626 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether, 2,4-Dinitrophenol and Benzaldehyde. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. RI SB-12 (2-4) (480-100681-1), RI SB-13 (1-3) (480-100681-2), RI SB-15 (6-8) (480-100681-3), RI MW-2 (8-10) (480-100681-4), RI SB-17 (4-6) (480-100681-5), RI SB-17 (4-6) (480-100681-5[MS]), RI SB-17 (4-6) (480-100681-5[MSD]), RI SB-18 (2-4) (480-100681-6), RI SB-19 (2-4) (480-100681-7), BLIND DUP (480-100681-8), RI SB-20 (4-6) (480-100681-9), RI SB-21 (6-8) (480-100681-10), RI SB-22 (8-10) (480-100681-11), RI SB-23 (2-4) (480-100681-12) and RI SB-24 (4-6) (480-100681-13).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-304626 recovered above the upper control limit for 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: RI SB-12 (2-4) (480-100681-1), RI SB-13 (1-3) (480-100681-2), RI SB-15 (6-8) (480-100681-3), RI MW-2 (8-10) (480-100681-4), RI SB-17 (4-6) (480-100681-5), RI SB-17 (4-6) (480-100681-5[MS]), RI SB-17 (4-6) (480-100681-5[MSD]), RI SB-18 (2-4) (480-100681-6), RI SB-19 (2-4) (480-100681-7), BLIND DUP (480-100681-8), RI SB-20 (4-6) (480-100681-9), RI SB-21 (6-8) (480-100681-10), RI SB-22 (8-10) (480-100681-11), RI SB-23 (2-4) (480-100681-12) and RI SB-24 (4-6) (480-100681-13).

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 480-304485 and analytical batch 480-304626 recovered outside control limits for the following analytes: Biphenyl, 3-Nitroaniline and 4-Chloroaniline. Recoveries of these compounds were within control limits in the original extraction and analysis; therefore, an additional re-extraction and re-analysis was not performed. Both the original data and second extraction data have been reported. The following samples are impacted: RI SB-12 (2-4) (480-100681-1), RI SB-13 (1-3) (480-100681-2), RI SB-15 (6-8) (480-100681-3), RI MW-2 (8-10) (480-100681-4), RI SB-17 (4-6) (480-100681-5), RI SB-17 (4-6) (480-100681-5[MS]), RI SB-17 (4-6) (480-100681-5[MSD]), RI SB-18 (2-4) (480-100681-6), RI SB-19 (2-4) (480-100681-7), BLIND DUP (480-100681-8), RI SB-20 (4-6) (480-100681-9), RI SB-21 (6-8) (480-100681-10), RI SB-22 (8-10) (480-100681-11), RI SB-23 (2-4) (480-100681-12) and RI SB-24 (4-6) (480-100681-13).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-303993 recovered outside acceptance criteria, low biased, for Benzaldehyde. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. RI SB-12 (2-4) (480-100681-1), RI SB-13 (1-3) (480-100681-2), RI SB-15 (6-8) (480-100681-3), RI MW-2 (8-10) (480-100681-4), RI SB-17 (4-6) (480-100681-5), RI SB-18 (2-4) (480-100681-6), RI SB-19 (2-4) (480-100681-7), BLIND DUP (480-100681-8), RI SB-20 (4-6) (480-100681-9), RI SB-21 (6-8) (480-100681-10), RI SB-22 (8-10) (480-100681-11), RI SB-23 (2-4) (480-100681-12) and RI SB-24 (4-6) (480-100681-13).

# Case Narrative

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Job ID: 480-100681-1 (Continued)

### Laboratory: TestAmerica Buffalo (Continued)

(480-100681-11), RI SB-23 (2-4) (480-100681-12) and RI SB-24 (4-6) (480-100681-13).

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 480-303732 and analytical batch 480-303993 recovered outside control limits for the following analyte: Acetophenone. The associated samples were re-prepared and re-analyzed. Both sets of data have been reported. RI SB-12 (2-4) (480-100681-1), RI SB-13 (1-3) (480-100681-2), RI SB-15 (6-8) (480-100681-3), RI MW-2 (8-10) (480-100681-4), RI SB-17 (4-6) (480-100681-5), RI SB-18 (2-4) (480-100681-6), RI SB-19 (2-4) (480-100681-7), BLIND DUP (480-100681-8), RI SB-20 (4-6) (480-100681-9), RI SB-21 (6-8) (480-100681-10), RI SB-22 (8-10) (480-100681-11), RI SB-23 (2-4) (480-100681-12) and RI SB-24 (4-6) (480-100681-13).

Method(s) 8270D: The initial calibration curve analyzed in batch 480-299919 was outside method criteria for the following analyte: 2,4-Dinitrophenol. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered an estimated concentration.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-304925 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether and Benzaldehyde. A reporting limit (RL) standard was analyzed, and the target analyte was detected. RI SB-17 (4-6) (480-100681-5[MS]) and RI SB-17 (4-6) (480-100681-5[MSD]).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-304925 recovered above the upper control limit for 4-Nitrophenol and Hexachlorobutadiene. The following samples are impacted: RI SB-17 (4-6) (480-100681-5[MS]) and RI SB-17 (4-6) (480-100681-5[MSD]).

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows two of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: RI SB-17 (4-6) (480-100681-5[MS]) and RI SB-17 (4-6) (480-100681-5[MSD]). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC Semi VOA

Method(s) 8081B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 304674 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected. The data has been qualified and reported.

Method(s) 8081B: All primary data for analytical batch 304913 is reported from the RTX-CLPII column.

Method(s) 8081B: The Tetrachloro-m-xylene surrogate recovery for the following sample was outside acceptance limits (low biased) on the primary column: RI SB-12 (2-4) (480-100681-1). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method(s) 8082A: Surrogate recovery for the following sample was outside the upper control limit: RI SB-13 (1-3) (480-100681-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082A: All primary data for analytical batch 303915 is reported from the ZB-5 column.

Method(s) 8151A: All primary data for analytical batch 304337 is reported from the RTX-CLPI column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Metals

Method(s) 6010C: The Method Blank for preparation batch 480-303850 and analytical batch 480-304476 contained Total Aluminum, Calcium, Iron, Magnesium, and Manganese above the reporting limits (RLs). Associated sample RI SB-12 (2-4) (480-100681-1), RI SB-13 (1-3) (480-100681-2), RI SB-15 (6-8) (480-100681-3), RI MW-2 (8-10) (480-100681-4), RI SB-17 (4-6) (480-100681-5), RI SB-18 (2-4) (480-100681-6), RI SB-19 (2-4) (480-100681-7), BLIND DUP (480-100681-8), RI SB-20 (4-6) (480-100681-9), RI SB-21 (6-8) (480-100681-10), RI SB-22 (8-10) (480-100681-11), RI SB-23 (2-4) (480-100681-12) and RI SB-24 (4-6) (480-100681-13) was not re-extracted and/or re-analyzed because results were greater than 10X the values found in the Method Blank.

## Case Narrative

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

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### Job ID: 480-100681-1 (Continued)

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#### Laboratory: TestAmerica Buffalo (Continued)

Method(s) 6010C: The Serial Dilution and Post Spike (480-100681-C-5-I PDS) and (480-100681-C-5-I SD) exceeded the quality control limits for Total Iron and Manganese. Sample matrix is suspected, therefore, no corrective action was necessary.

Method(s) 6010C: The Serial Dilution (480-100681-C-5-I SD) in batch 480-303850, exhibited results outside the quality control limits for Total Barium, Calcium, Chromium, Copper, Magnesium, Lead, Vanadium, and Zinc. However, the Post Digestion Spike was compliant so no corrective action was necessary

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

Method(s) 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: RI SB-12 (2-4) (480-100681-1), RI MW-2 (8-10) (480-100681-4), RI SB-17 (4-6) (480-100681-5), RI SB-17 (4-6) (480-100681-5[MS]), RI SB-17 (4-6) (480-100681-5[MSD]), RI SB-19 (2-4) (480-100681-7), BLIND DUP (480-100681-8) and RI SB-24 (4-6) (480-100681-13).

Method(s) 3550C: The following sample: RI SB-19 (2-4) (480-100681-7) was decanted prior to preparation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

### Client Sample ID: RI SB-12 (2-4)

### Lab Sample ID: 480-100681-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	21	J	200	20	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	37	J	200	21	ug/Kg	1	☼	8270D	Total/NA
Pyrene	30	J	200	24	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene - RE	27	J	200	22	ug/Kg	1	☼	8270D	Total/NA
Pyrene - RE	24	J	200	24	ug/Kg	1	☼	8270D	Total/NA
Aluminum	7500	B	11.3		mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.3		2.3		mg/Kg	1	☼	6010C	Total/NA
Barium	28.7		0.56		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.30		0.23		mg/Kg	1	☼	6010C	Total/NA
Calcium	20700	B	56.4		mg/Kg	1	☼	6010C	Total/NA
Chromium	17.9		0.56		mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.8		0.56		mg/Kg	1	☼	6010C	Total/NA
Copper	11.8		1.1		mg/Kg	1	☼	6010C	Total/NA
Iron	12300	B	11.3		mg/Kg	1	☼	6010C	Total/NA
Lead	93.9		1.1		mg/Kg	1	☼	6010C	Total/NA
Magnesium	10500	B	22.6		mg/Kg	1	☼	6010C	Total/NA
Manganese	277	B	0.23		mg/Kg	1	☼	6010C	Total/NA
Nickel	9.6		5.6		mg/Kg	1	☼	6010C	Total/NA
Potassium	1900		33.9		mg/Kg	1	☼	6010C	Total/NA
Sodium	1910		158		mg/Kg	1	☼	6010C	Total/NA
Vanadium	18.9		0.56		mg/Kg	1	☼	6010C	Total/NA
Zinc	87.0		2.3		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.044		0.023		mg/Kg	1	☼	7471B	Total/NA

### Client Sample ID: RI SB-13 (1-3)

### Lab Sample ID: 480-100681-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate	38	J	200	25	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate - RE	130	J	200	67	ug/Kg	1	☼	8270D	Total/NA
Diethyl phthalate - RE	34	J	200	25	ug/Kg	1	☼	8270D	Total/NA
Aluminum	9750	B	11.3		mg/Kg	1	☼	6010C	Total/NA
Arsenic	26.9		2.3		mg/Kg	1	☼	6010C	Total/NA
Barium	94.1		0.57		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.88		0.23		mg/Kg	1	☼	6010C	Total/NA
Calcium	51300	B	56.7		mg/Kg	1	☼	6010C	Total/NA
Chromium	15.1		0.57		mg/Kg	1	☼	6010C	Total/NA
Cobalt	14.2		0.57		mg/Kg	1	☼	6010C	Total/NA
Copper	20.2		1.1		mg/Kg	1	☼	6010C	Total/NA
Iron	17100	B	11.3		mg/Kg	1	☼	6010C	Total/NA
Lead	12.2		1.1		mg/Kg	1	☼	6010C	Total/NA
Magnesium	8640	B	22.7		mg/Kg	1	☼	6010C	Total/NA
Manganese	331	B	0.23		mg/Kg	1	☼	6010C	Total/NA
Nickel	20.4		5.7		mg/Kg	1	☼	6010C	Total/NA
Potassium	2130		34.0		mg/Kg	1	☼	6010C	Total/NA
Sodium	963		159		mg/Kg	1	☼	6010C	Total/NA
Vanadium	24.3		0.57		mg/Kg	1	☼	6010C	Total/NA
Zinc	64.1		2.3		mg/Kg	1	☼	6010C	Total/NA

### Client Sample ID: RI SB-15 (6-8)

### Lab Sample ID: 480-100681-3

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Client Sample ID: RI SB-15 (6-8) (Continued)

Lab Sample ID: 480-100681-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate - RE	32	J	210	28	ug/Kg	1	☒	8270D	Total/NA
Aluminum	22800	B	13.2		mg/Kg	1	☒	6010C	Total/NA
Arsenic	6.1		2.6		mg/Kg	1	☒	6010C	Total/NA
Barium	230		0.66		mg/Kg	1	☒	6010C	Total/NA
Beryllium	0.93		0.26		mg/Kg	1	☒	6010C	Total/NA
Calcium	51100	B	65.9		mg/Kg	1	☒	6010C	Total/NA
Chromium	28.4		0.66		mg/Kg	1	☒	6010C	Total/NA
Cobalt	11.9		0.66		mg/Kg	1	☒	6010C	Total/NA
Copper	22.4		1.3		mg/Kg	1	☒	6010C	Total/NA
Iron	26300	B	13.2		mg/Kg	1	☒	6010C	Total/NA
Lead	16.7		1.3		mg/Kg	1	☒	6010C	Total/NA
Magnesium	19400	B	26.4		mg/Kg	1	☒	6010C	Total/NA
Manganese	398	B	0.26		mg/Kg	1	☒	6010C	Total/NA
Nickel	33.6		6.6		mg/Kg	1	☒	6010C	Total/NA
Potassium	7160		39.6		mg/Kg	1	☒	6010C	Total/NA
Sodium	2160		185		mg/Kg	1	☒	6010C	Total/NA
Vanadium	42.8		0.66		mg/Kg	1	☒	6010C	Total/NA
Zinc	78.6		2.6		mg/Kg	1	☒	6010C	Total/NA

## Client Sample ID: RI MW-2 (8-10)

Lab Sample ID: 480-100681-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	85	J	200	69	ug/Kg	1	☒	8270D	Total/NA
Aluminum	8950	B	11.8		mg/Kg	1	☒	6010C	Total/NA
Barium	60.2		0.59		mg/Kg	1	☒	6010C	Total/NA
Beryllium	0.36		0.24		mg/Kg	1	☒	6010C	Total/NA
Calcium	64200	B	58.9		mg/Kg	1	☒	6010C	Total/NA
Chromium	12.1		0.59		mg/Kg	1	☒	6010C	Total/NA
Cobalt	5.8		0.59		mg/Kg	1	☒	6010C	Total/NA
Copper	10.6		1.2		mg/Kg	1	☒	6010C	Total/NA
Iron	12500	B	11.8		mg/Kg	1	☒	6010C	Total/NA
Lead	11.7		1.2		mg/Kg	1	☒	6010C	Total/NA
Magnesium	29900	B	23.6		mg/Kg	1	☒	6010C	Total/NA
Manganese	378	B	0.24		mg/Kg	1	☒	6010C	Total/NA
Nickel	12.3		5.9		mg/Kg	1	☒	6010C	Total/NA
Potassium	3010		35.4		mg/Kg	1	☒	6010C	Total/NA
Sodium	441		165		mg/Kg	1	☒	6010C	Total/NA
Vanadium	20.2		0.59		mg/Kg	1	☒	6010C	Total/NA
Zinc	51.7		2.4		mg/Kg	1	☒	6010C	Total/NA
Cyanide, Total	6.3		1.2		mg/Kg	1	☒	9012B	Total/NA

## Client Sample ID: RI SB-17 (4-6)

Lab Sample ID: 480-100681-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	8140	B F1 F2	12.9		mg/Kg	1	☒	6010C	Total/NA
Barium	56.3	F1 F2	0.64		mg/Kg	1	☒	6010C	Total/NA
Beryllium	0.33		0.26		mg/Kg	1	☒	6010C	Total/NA
Cadmium	0.37		0.26		mg/Kg	1	☒	6010C	Total/NA
Calcium	58700	B	64.5		mg/Kg	1	☒	6010C	Total/NA
Chromium	11.1	F2	0.64		mg/Kg	1	☒	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

### Client Sample ID: RI SB-17 (4-6) (Continued)

Lab Sample ID: 480-100681-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	4.7		0.64		mg/Kg	1	☒	6010C	Total/NA
Copper	10		1.3		mg/Kg	1	☒	6010C	Total/NA
Iron	11400	B F2	12.9		mg/Kg	1	☒	6010C	Total/NA
Lead	11.8		1.3		mg/Kg	1	☒	6010C	Total/NA
Magnesium	26500	B	25.8		mg/Kg	1	☒	6010C	Total/NA
Manganese	330	B F2	0.26		mg/Kg	1	☒	6010C	Total/NA
Nickel	10.8	F2	6.4		mg/Kg	1	☒	6010C	Total/NA
Potassium	2780	F1 F2	38.7		mg/Kg	1	☒	6010C	Total/NA
Sodium	264		181		mg/Kg	1	☒	6010C	Total/NA
Vanadium	18.9	F1 F2	0.64		mg/Kg	1	☒	6010C	Total/NA
Zinc	61.4		2.6		mg/Kg	1	☒	6010C	Total/NA

### Client Sample ID: RI SB-18 (2-4)

Lab Sample ID: 480-100681-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	3.7	J B	5.0	2.3	ug/Kg	1	☒	8260C	Total/NA
Trichloroethene	2.6	J	5.0	1.1	ug/Kg	1	☒	8260C	Total/NA
Aluminum	3460	B	11.7		mg/Kg	1	☒	6010C	Total/NA
Barium	17.5		0.58		mg/Kg	1	☒	6010C	Total/NA
Calcium	54100	B	58.4		mg/Kg	1	☒	6010C	Total/NA
Chromium	5.7		0.58		mg/Kg	1	☒	6010C	Total/NA
Cobalt	2.2		0.58		mg/Kg	1	☒	6010C	Total/NA
Copper	5.2		1.2		mg/Kg	1	☒	6010C	Total/NA
Iron	7680	B	11.7		mg/Kg	1	☒	6010C	Total/NA
Lead	9.9		1.2		mg/Kg	1	☒	6010C	Total/NA
Magnesium	26200	B	23.4		mg/Kg	1	☒	6010C	Total/NA
Manganese	292	B	0.23		mg/Kg	1	☒	6010C	Total/NA
Nickel	116		5.8		mg/Kg	1	☒	6010C	Total/NA
Potassium	1030		35.1		mg/Kg	1	☒	6010C	Total/NA
Sodium	192		164		mg/Kg	1	☒	6010C	Total/NA
Vanadium	13.2		0.58		mg/Kg	1	☒	6010C	Total/NA
Zinc	25.1		2.3		mg/Kg	1	☒	6010C	Total/NA
Cyanide, Total	23.7		1.2		mg/Kg	1	☒	9012B	Total/NA

### Client Sample ID: RI SB-19 (2-4)

Lab Sample ID: 480-100681-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	5.3	J B	5.4	2.5	ug/Kg	1	☒	8260C	Total/NA
Trichloroethene	1.6	J	5.4	1.2	ug/Kg	1	☒	8260C	Total/NA
Di-n-butyl phthalate	78	J	200	35	ug/Kg	1	☒	8270D	Total/NA
Di-n-butyl phthalate - RE	530		210	35	ug/Kg	1	☒	8270D	Total/NA
Aluminum	9960	B	12.8		mg/Kg	1	☒	6010C	Total/NA
Barium	49.2		0.64		mg/Kg	1	☒	6010C	Total/NA
Beryllium	0.39		0.26		mg/Kg	1	☒	6010C	Total/NA
Cadmium	0.32		0.26		mg/Kg	1	☒	6010C	Total/NA
Calcium	60100	B	64.0		mg/Kg	1	☒	6010C	Total/NA
Chromium	13.7		0.64		mg/Kg	1	☒	6010C	Total/NA
Cobalt	5.2		0.64		mg/Kg	1	☒	6010C	Total/NA
Copper	10.7		1.3		mg/Kg	1	☒	6010C	Total/NA
Iron	13400	B	12.8		mg/Kg	1	☒	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

### Client Sample ID: RI SB-19 (2-4) (Continued)

Lab Sample ID: 480-100681-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	21.9		1.3		mg/Kg	1	☼	6010C	Total/NA
Magnesium	26400	B	25.6		mg/Kg	1	☼	6010C	Total/NA
Manganese	357	B	0.26		mg/Kg	1	☼	6010C	Total/NA
Nickel	12.7		6.4		mg/Kg	1	☼	6010C	Total/NA
Potassium	3400		38.4		mg/Kg	1	☼	6010C	Total/NA
Sodium	252		179		mg/Kg	1	☼	6010C	Total/NA
Vanadium	22.4		0.64		mg/Kg	1	☼	6010C	Total/NA
Zinc	77.7		2.6		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.042		0.022		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	15.9		1.2		mg/Kg	1	☼	9012B	Total/NA

### Client Sample ID: BLIND DUP

Lab Sample ID: 480-100681-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	3.6	J B	5.1	2.4	ug/Kg	1	☼	8260C	Total/NA
Di-n-butyl phthalate	66	J	200	35	ug/Kg	1	☼	8270D	Total/NA
Aluminum	10200	B	12.0		mg/Kg	1	☼	6010C	Total/NA
Barium	48.7		0.60		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.40		0.24		mg/Kg	1	☼	6010C	Total/NA
Calcium	58000	B	60.2		mg/Kg	1	☼	6010C	Total/NA
Chromium	13.5		0.60		mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.3		0.60		mg/Kg	1	☼	6010C	Total/NA
Copper	10.2		1.2		mg/Kg	1	☼	6010C	Total/NA
Iron	12900	B	12.0		mg/Kg	1	☼	6010C	Total/NA
Lead	14.1		1.2		mg/Kg	1	☼	6010C	Total/NA
Magnesium	26400	B	24.1		mg/Kg	1	☼	6010C	Total/NA
Manganese	370	B	0.24		mg/Kg	1	☼	6010C	Total/NA
Nickel	13.4		6.0		mg/Kg	1	☼	6010C	Total/NA
Potassium	3500		36.1		mg/Kg	1	☼	6010C	Total/NA
Sodium	266		169		mg/Kg	1	☼	6010C	Total/NA
Vanadium	22.9		0.60		mg/Kg	1	☼	6010C	Total/NA
Zinc	57.3		2.4		mg/Kg	1	☼	6010C	Total/NA

### Client Sample ID: RI SB-20 (4-6)

Lab Sample ID: 480-100681-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	15100	B	12.5		mg/Kg	1	☼	6010C	Total/NA
Barium	74.8		0.63		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.58		0.25		mg/Kg	1	☼	6010C	Total/NA
Calcium	59400	B	62.5		mg/Kg	1	☼	6010C	Total/NA
Chromium	18.2		0.63		mg/Kg	1	☼	6010C	Total/NA
Cobalt	7.8		0.63		mg/Kg	1	☼	6010C	Total/NA
Copper	12.3		1.3		mg/Kg	1	☼	6010C	Total/NA
Iron	17000	B	12.5		mg/Kg	1	☼	6010C	Total/NA
Lead	13.4		1.3		mg/Kg	1	☼	6010C	Total/NA
Magnesium	24700	B	25.0		mg/Kg	1	☼	6010C	Total/NA
Manganese	415	B	0.25		mg/Kg	1	☼	6010C	Total/NA
Nickel	18.2		6.3		mg/Kg	1	☼	6010C	Total/NA
Potassium	5430		37.5		mg/Kg	1	☼	6010C	Total/NA
Sodium	331		175		mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Client Sample ID: RI SB-20 (4-6) (Continued)

Lab Sample ID: 480-100681-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	28.9		0.63		mg/Kg	1	☼	6010C	Total/NA
Zinc	59.7		2.5		mg/Kg	1	☼	6010C	Total/NA
Cyanide, Total	1.8		1.2		mg/Kg	1	☼	9012B	Total/NA

## Client Sample ID: RI SB-21 (6-8)

Lab Sample ID: 480-100681-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	14100	B	11.5		mg/Kg	1	☼	6010C	Total/NA
Barium	74.0		0.57		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.52		0.23		mg/Kg	1	☼	6010C	Total/NA
Calcium	61600	B	57.3		mg/Kg	1	☼	6010C	Total/NA
Chromium	16.9		0.57		mg/Kg	1	☼	6010C	Total/NA
Cobalt	7.0		0.57		mg/Kg	1	☼	6010C	Total/NA
Copper	12.2		1.1		mg/Kg	1	☼	6010C	Total/NA
Iron	15200	B	11.5		mg/Kg	1	☼	6010C	Total/NA
Lead	14.6		1.1		mg/Kg	1	☼	6010C	Total/NA
Magnesium	27000	B	22.9		mg/Kg	1	☼	6010C	Total/NA
Manganese	411	B	0.23		mg/Kg	1	☼	6010C	Total/NA
Nickel	16.9		5.7		mg/Kg	1	☼	6010C	Total/NA
Potassium	5050		34.4		mg/Kg	1	☼	6010C	Total/NA
Sodium	292		160		mg/Kg	1	☼	6010C	Total/NA
Vanadium	27.5		0.57		mg/Kg	1	☼	6010C	Total/NA
Zinc	58.8		2.3		mg/Kg	1	☼	6010C	Total/NA

## Client Sample ID: RI SB-22 (8-10)

Lab Sample ID: 480-100681-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate	40	J	200	26	ug/Kg	1	☼	8270D	Total/NA
Aluminum	11300	B	13.2		mg/Kg	1	☼	6010C	Total/NA
Barium	51.7		0.66		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.43		0.26		mg/Kg	1	☼	6010C	Total/NA
Calcium	64300	B	66.0		mg/Kg	1	☼	6010C	Total/NA
Chromium	14.0		0.66		mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.0		0.66		mg/Kg	1	☼	6010C	Total/NA
Copper	12.2		1.3		mg/Kg	1	☼	6010C	Total/NA
Iron	13400	B	13.2		mg/Kg	1	☼	6010C	Total/NA
Lead	15.2		1.3		mg/Kg	1	☼	6010C	Total/NA
Magnesium	28900	B	26.4		mg/Kg	1	☼	6010C	Total/NA
Manganese	386	B	0.26		mg/Kg	1	☼	6010C	Total/NA
Nickel	13.8		6.6		mg/Kg	1	☼	6010C	Total/NA
Potassium	4120		39.6		mg/Kg	1	☼	6010C	Total/NA
Sodium	447		185		mg/Kg	1	☼	6010C	Total/NA
Vanadium	23.0		0.66		mg/Kg	1	☼	6010C	Total/NA
Zinc	59.7		2.6		mg/Kg	1	☼	6010C	Total/NA

## Client Sample ID: RI SB-23 (2-4)

Lab Sample ID: 480-100681-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	3690	B	11.8		mg/Kg	1	☼	6010C	Total/NA
Barium	19.1		0.59		mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Client Sample ID: RI SB-23 (2-4) (Continued)

## Lab Sample ID: 480-100681-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	54100	B	59.1		mg/Kg	1	☼	6010C	Total/NA
Chromium	6.1		0.59		mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.3		0.59		mg/Kg	1	☼	6010C	Total/NA
Copper	5.3		1.2		mg/Kg	1	☼	6010C	Total/NA
Iron	6780	B	11.8		mg/Kg	1	☼	6010C	Total/NA
Lead	9.7		1.2		mg/Kg	1	☼	6010C	Total/NA
Magnesium	26700	B	23.6		mg/Kg	1	☼	6010C	Total/NA
Manganese	278	B	0.24		mg/Kg	1	☼	6010C	Total/NA
Potassium	1310		35.4		mg/Kg	1	☼	6010C	Total/NA
Sodium	212		165		mg/Kg	1	☼	6010C	Total/NA
Vanadium	12.4		0.59		mg/Kg	1	☼	6010C	Total/NA
Zinc	64.6		2.4		mg/Kg	1	☼	6010C	Total/NA

## Client Sample ID: RI SB-24 (4-6)

## Lab Sample ID: 480-100681-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	77	J	200	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	69	J	200	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	82	J	200	31	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	47	J	200	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	37	J	200	25	ug/Kg	1	☼	8270D	Total/NA
Chrysene	70	J	200	44	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	190	J	200	21	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	41	J	200	24	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	130	J	200	29	ug/Kg	1	☼	8270D	Total/NA
Pyrene	150	J	200	23	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene - RE	32	J	190	29	ug/Kg	1	☼	8270D	Total/NA
Anthracene - RE	110	J	190	48	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene - RE	180	J	190	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene - RE	160	J	190	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene - RE	180	J	190	31	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene - RE	100	J	190	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene - RE	87	J	190	25	ug/Kg	1	☼	8270D	Total/NA
Carbazole - RE	26	J	190	23	ug/Kg	1	☼	8270D	Total/NA
Chrysene - RE	160	J	190	43	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran - RE	32	J	190	23	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene - RE	390		190	21	ug/Kg	1	☼	8270D	Total/NA
Fluorene - RE	46	J	190	23	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - RE	89	J	190	24	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene - RE	330		190	29	ug/Kg	1	☼	8270D	Total/NA
Pyrene - RE	320		190	23	ug/Kg	1	☼	8270D	Total/NA
Aluminum	13500	B	11.2		mg/Kg	1	☼	6010C	Total/NA
Barium	49.1		0.56		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.57		0.22		mg/Kg	1	☼	6010C	Total/NA
Calcium	38500	B	56.1		mg/Kg	1	☼	6010C	Total/NA
Chromium	18.5		0.56		mg/Kg	1	☼	6010C	Total/NA
Cobalt	8.5		0.56		mg/Kg	1	☼	6010C	Total/NA
Copper	17.7		1.1		mg/Kg	1	☼	6010C	Total/NA
Iron	17600	B	11.2		mg/Kg	1	☼	6010C	Total/NA
Lead	13.5		1.1		mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

Client Sample ID: RI SB-24 (4-6) (Continued)

Lab Sample ID: 480-100681-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Magnesium	18900	B	22.4		mg/Kg	1		*	6010C	Total/NA
Manganese	291	B	0.22		mg/Kg	1		*	6010C	Total/NA
Nickel	20.8		5.6		mg/Kg	1		*	6010C	Total/NA
Potassium	4360		33.6		mg/Kg	1		*	6010C	Total/NA
Sodium	199		157		mg/Kg	1		*	6010C	Total/NA
Vanadium	28.8		0.56		mg/Kg	1		*	6010C	Total/NA
Zinc	132		2.2		mg/Kg	1		*	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-12 (2-4)**

**Lab Sample ID: 480-100681-1**

Date Collected: 05/23/16 10:30

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 83.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
2,4-Dinitrophenol	ND		2000	920	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
2-Methylphenol	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
2-Nitroaniline	ND		390	29	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
3-Nitroaniline	ND		390	55	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
4-Methylphenol	ND		390	24	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
4-Nitroaniline	ND		390	100	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Acenaphthene	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Acenaphthylene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Acetophenone	ND	*	200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Anthracene	ND		200	49	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Atrazine	ND		200	69	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Benzaldehyde	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
<b>Benzo[a]anthracene</b>	<b>21</b>	<b>J</b>	200	20	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Bis(2-ethylhexyl) phthalate	ND		200	68	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Caprolactam	ND		200	60	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Carbazole	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Chrysene	ND		200	45	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Dibenzofuran	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-12 (2-4)**

**Lab Sample ID: 480-100681-1**

Date Collected: 05/23/16 10:30

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 83.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Fluoranthene</b>	<b>37</b>	<b>J</b>	200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Fluorene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Hexachloroethane	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Isophorone	ND		200	42	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Naphthalene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Nitrobenzene	ND		200	22	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Phenanthrene	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
Phenol	ND		200	31	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
<b>Pyrene</b>	<b>30</b>	<b>J</b>	200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 14:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5 (Surr)	74		34 - 132				05/26/16 07:38	05/27/16 14:17	1
Phenol-d5 (Surr)	68		11 - 120				05/26/16 07:38	05/27/16 14:17	1
p-Terphenyl-d14 (Surr)	77		65 - 153				05/26/16 07:38	05/27/16 14:17	1
2,4,6-Tribromophenol (Surr)	93		39 - 146				05/26/16 07:38	05/27/16 14:17	1
2-Fluorobiphenyl	75		37 - 120				05/26/16 07:38	05/27/16 14:17	1
2-Fluorophenol (Surr)	67		18 - 120				05/26/16 07:38	05/27/16 14:17	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	*	200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
bis (2-chloroisopropyl) ether	ND		200	41	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
2,4,6-Trichlorophenol	ND		200	41	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
2,4-Dichlorophenol	ND		200	22	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
2,4-Dinitrophenol	ND		2000	940	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
2-Chloronaphthalene	ND		200	34	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
2-Methylphenol	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
2-Methylnaphthalene	ND		200	41	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
2-Nitrophenol	ND		200	58	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
3-Nitroaniline	ND	*	400	56	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
4,6-Dinitro-2-methylphenol	ND		400	200	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
4-Chloroaniline	ND	*	200	50	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
4-Methylphenol	ND		400	24	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-12 (2-4)**

**Lab Sample ID: 480-100681-1**

Date Collected: 05/23/16 10:30

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 83.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		400	110	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Acenaphthene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Acenaphthylene	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Acetophenone	ND		200	28	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Anthracene	ND		200	50	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Atrazine	ND		200	71	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Benzaldehyde	ND		200	160	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Benzo[a]pyrene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Benzo[g,h,i]perylene	ND		200	22	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Bis(2-ethylhexyl) phthalate	ND		200	70	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Butyl benzyl phthalate	ND		200	34	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Caprolactam	ND		200	61	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Carbazole	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Chrysene	ND		200	46	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Dibenzofuran	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
<b>Fluoranthene</b>	<b>27</b>	<b>J</b>	200	22	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Fluorene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Hexachlorobenzene	ND		200	28	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Hexachlorocyclopentadiene	ND		200	28	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Hexachloroethane	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Isophorone	ND		200	43	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
N-Nitrosodiphenylamine	ND		200	170	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Naphthalene	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Nitrobenzene	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Pentachlorophenol	ND		400	200	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Phenanthrene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Phenol	ND		200	31	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
<b>Pyrene</b>	<b>24</b>	<b>J</b>	200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	55		34 - 132				06/01/16 07:31	06/01/16 20:35	1
Phenol-d5 (Surr)	52		11 - 120				06/01/16 07:31	06/01/16 20:35	1
p-Terphenyl-d14 (Surr)	68		65 - 153				06/01/16 07:31	06/01/16 20:35	1
2,4,6-Tribromophenol (Surr)	84		39 - 146				06/01/16 07:31	06/01/16 20:35	1
2-Fluorobiphenyl	63		37 - 120				06/01/16 07:31	06/01/16 20:35	1
2-Fluorophenol (Surr)	49		18 - 120				06/01/16 07:31	06/01/16 20:35	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.38	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
4,4'-DDE	ND		2.0	0.41	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
4,4'-DDT	ND		2.0	0.46	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
Aldrin	ND		2.0	0.49	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
alpha-Chlordane	ND		2.0	0.98	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
delta-BHC	ND		2.0	0.37	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
Dieldrin	ND		2.0	0.47	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
Endrin	ND		2.0	0.39	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
Endrin aldehyde	ND		2.0	0.50	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
Endrin ketone	ND		2.0	0.49	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
gamma-Chlordane	ND		2.0	0.63	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
Heptachlor	ND		2.0	0.43	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
Heptachlor epoxide	ND		2.0	0.51	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
Methoxychlor	ND		2.0	0.40	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
Toxaphene	ND		20	11	ug/Kg	☼	06/02/16 07:25	06/03/16 11:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	54		32 - 136				06/02/16 07:25	06/03/16 11:26	1
DCB Decachlorobiphenyl	31	X	32 - 136				06/02/16 07:25	06/03/16 11:26	1
Tetrachloro-m-xylene	59		30 - 124				06/02/16 07:25	06/03/16 11:26	1
Tetrachloro-m-xylene	61		30 - 124				06/02/16 07:25	06/03/16 11:26	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.048	mg/Kg	☼	05/26/16 12:03	05/26/16 22:49	1
PCB-1221	ND		0.25	0.048	mg/Kg	☼	05/26/16 12:03	05/26/16 22:49	1
PCB-1232	ND		0.25	0.048	mg/Kg	☼	05/26/16 12:03	05/26/16 22:49	1
PCB-1242	ND		0.25	0.048	mg/Kg	☼	05/26/16 12:03	05/26/16 22:49	1
PCB-1248	ND		0.25	0.048	mg/Kg	☼	05/26/16 12:03	05/26/16 22:49	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	05/26/16 12:03	05/26/16 22:49	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	05/26/16 12:03	05/26/16 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	112		60 - 154				05/26/16 12:03	05/26/16 22:49	1
Tetrachloro-m-xylene	99		60 - 154				05/26/16 12:03	05/26/16 22:49	1
DCB Decachlorobiphenyl	125		65 - 174				05/26/16 12:03	05/26/16 22:49	1
DCB Decachlorobiphenyl	111		65 - 174				05/26/16 12:03	05/26/16 22:49	1

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.3	ug/Kg	☼	05/26/16 11:30	05/31/16 16:21	1
Silvex (2,4,5-TP)	ND		20	7.1	ug/Kg	☼	05/26/16 11:30	05/31/16 16:21	1
2,4-D	ND		20	12	ug/Kg	☼	05/26/16 11:30	05/31/16 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	82		28 - 129				05/26/16 11:30	05/31/16 16:21	1
2,4-Dichlorophenylacetic acid	79		28 - 129				05/26/16 11:30	05/31/16 16:21	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-12 (2-4)**

**Lab Sample ID: 480-100681-1**

Date Collected: 05/23/16 10:30

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 83.3

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7500	B	11.3		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Antimony	ND		16.9		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Arsenic	2.3		2.3		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Barium	28.7		0.56		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Beryllium	0.30		0.23		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Cadmium	ND		0.23		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Calcium	20700	B	56.4		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Chromium	17.9		0.56		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Cobalt	3.8		0.56		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Copper	11.8		1.1		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Iron	12300	B	11.3		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Lead	93.9		1.1		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Magnesium	10500	B	22.6		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Manganese	277	B	0.23		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Nickel	9.6		5.6		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Potassium	1900		33.9		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Selenium	ND		4.5		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Silver	ND		0.68		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Sodium	1910		158		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Thallium	ND		6.8		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Vanadium	18.9		0.56		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1
Zinc	87.0		2.3		mg/Kg	☼	05/31/16 10:33	05/31/16 12:23	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.023		mg/Kg	☼	05/26/16 07:00	05/27/16 10:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1		mg/Kg	☼	05/30/16 13:50	05/31/16 11:49	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-13 (1-3)**

**Lab Sample ID: 480-100681-2**

Date Collected: 05/23/16 13:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 85.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
2,4-Dinitrotoluene	ND		200	40	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
2-Methylphenol	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
2-Nitrophenol	ND		200	55	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
4-Chloro-3-methylphenol	ND		200	48	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
4-Chloroaniline	ND		200	48	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
4-Methylphenol	ND		380	23	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Acenaphthene	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Acenaphthylene	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Acetophenone	ND	*	200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Anthracene	ND		200	48	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Atrazine	ND		200	68	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Benzaldehyde	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Benzo[k]fluoranthene	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Bis(2-chloroethoxy)methane	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Caprolactam	ND		200	59	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Carbazole	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Chrysene	ND		200	44	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Di-n-butyl phthalate	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Dibenzofuran	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
<b>Diethyl phthalate</b>	<b>38</b>	<b>J</b>	200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1

TestAmerica Buffalo



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-13 (1-3)**

**Lab Sample ID: 480-100681-2**

Date Collected: 05/23/16 13:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 85.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Fluorene	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Hexachlorobenzene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Hexachlorocyclopentadiene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Hexachloroethane	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Isophorone	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
N-Nitrosodi-n-propylamine	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Naphthalene	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Nitrobenzene	ND		200	22	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Phenanthrene	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Phenol	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Pyrene	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	71		34 - 132				05/26/16 07:38	05/27/16 14:43	1
Phenol-d5 (Surr)	65		11 - 120				05/26/16 07:38	05/27/16 14:43	1
p-Terphenyl-d14 (Surr)	77		65 - 153				05/26/16 07:38	05/27/16 14:43	1
2,4,6-Tribromophenol (Surr)	68		39 - 146				05/26/16 07:38	05/27/16 14:43	1
2-Fluorobiphenyl	72		37 - 120				05/26/16 07:38	05/27/16 14:43	1
2-Fluorophenol (Surr)	63		18 - 120				05/26/16 07:38	05/27/16 14:43	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	*	200	29	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
2,4-Dinitrophenol	ND		1900	910	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
2-Methylphenol	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
3-Nitroaniline	ND	*	380	54	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
4-Chloroaniline	ND	*	200	49	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
4-Methylphenol	ND		380	23	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-13 (1-3)**

**Lab Sample ID: 480-100681-2**

Date Collected: 05/23/16 13:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 85.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		380	100	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Acenaphthene	ND		200	29	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Acenaphthylene	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Acetophenone	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Anthracene	ND		200	49	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Atrazine	ND		200	68	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Benzaldehyde	ND		200	160	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Benzo[k]fluoranthene	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>130</b>	<b>J</b>	200	67	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Caprolactam	ND		200	59	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Carbazole	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Chrysene	ND		200	44	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Dibenzofuran	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
<b>Diethyl phthalate</b>	<b>34</b>	<b>J</b>	200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Fluoranthene	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Fluorene	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Hexachloroethane	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Isophorone	ND		200	42	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Naphthalene	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Nitrobenzene	ND		200	22	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Phenanthrene	ND		200	29	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Phenol	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Pyrene	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/01/16 21:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	68		34 - 132				06/01/16 07:31	06/01/16 21:01	1
Phenol-d5 (Surr)	63		11 - 120				06/01/16 07:31	06/01/16 21:01	1
p-Terphenyl-d14 (Surr)	74		65 - 153				06/01/16 07:31	06/01/16 21:01	1
2,4,6-Tribromophenol (Surr)	72		39 - 146				06/01/16 07:31	06/01/16 21:01	1
2-Fluorobiphenyl	72		37 - 120				06/01/16 07:31	06/01/16 21:01	1
2-Fluorophenol (Surr)	61		18 - 120				06/01/16 07:31	06/01/16 21:01	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.041	mg/Kg	☼	05/26/16 12:03	05/26/16 23:09	1
PCB-1221	ND		0.21	0.041	mg/Kg	☼	05/26/16 12:03	05/26/16 23:09	1
PCB-1232	ND		0.21	0.041	mg/Kg	☼	05/26/16 12:03	05/26/16 23:09	1
PCB-1242	ND		0.21	0.041	mg/Kg	☼	05/26/16 12:03	05/26/16 23:09	1
PCB-1248	ND		0.21	0.041	mg/Kg	☼	05/26/16 12:03	05/26/16 23:09	1
PCB-1254	ND		0.21	0.098	mg/Kg	☼	05/26/16 12:03	05/26/16 23:09	1
PCB-1260	ND		0.21	0.098	mg/Kg	☼	05/26/16 12:03	05/26/16 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	163	X	60 - 154				05/26/16 12:03	05/26/16 23:09	1
Tetrachloro-m-xylene	160	X	60 - 154				05/26/16 12:03	05/26/16 23:09	1
DCB Decachlorobiphenyl	179	X	65 - 174				05/26/16 12:03	05/26/16 23:09	1
DCB Decachlorobiphenyl	167		65 - 174				05/26/16 12:03	05/26/16 23:09	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9750	B	11.3		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Antimony	ND		17.0		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Arsenic	26.9		2.3		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Barium	94.1		0.57		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Beryllium	0.88		0.23		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Cadmium	ND		0.23		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Calcium	51300	B	56.7		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Chromium	15.1		0.57		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Cobalt	14.2		0.57		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Copper	20.2		1.1		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Iron	17100	B	11.3		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Lead	12.2		1.1		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Magnesium	8640	B	22.7		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Manganese	331	B	0.23		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Nickel	20.4		5.7		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Potassium	2130		34.0		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Selenium	ND		4.5		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Silver	ND		0.68		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Sodium	963		159		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Thallium	ND		6.8		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Vanadium	24.3		0.57		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1
Zinc	64.1		2.3		mg/Kg	☼	05/31/16 10:33	05/31/16 12:26	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.023		mg/Kg	☼	05/26/16 07:00	05/27/16 10:11	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1		mg/Kg	☼	05/27/16 14:08	05/27/16 15:20	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-15 (6-8)**

**Lab Sample ID: 480-100681-3**

**Date Collected: 05/23/16 12:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 78.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		210	32	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
bis (2-chloroisopropyl) ether	ND		210	43	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
2,4,5-Trichlorophenol	ND		210	58	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
2,4,6-Trichlorophenol	ND		210	43	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
2,4-Dichlorophenol	ND		210	23	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
2,4-Dimethylphenol	ND		210	52	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
2,4-Dinitrophenol	ND		2100	990	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
2,4-Dinitrotoluene	ND		210	44	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
2-Chloronaphthalene	ND		210	35	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
2-Chlorophenol	ND		210	39	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
2-Methylphenol	ND		210	25	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
2-Methylnaphthalene	ND		210	43	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
2-Nitroaniline	ND		420	32	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
2-Nitrophenol	ND		210	60	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
3,3'-Dichlorobenzidine	ND		420	250	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
3-Nitroaniline	ND		420	59	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
4,6-Dinitro-2-methylphenol	ND		420	210	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
4-Chloro-3-methylphenol	ND		210	53	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
4-Chloroaniline	ND		210	53	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
4-Methylphenol	ND		420	25	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
4-Nitroaniline	ND		420	110	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
4-Nitrophenol	ND		420	150	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Acenaphthene	ND		210	32	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Acenaphthylene	ND		210	28	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Acetophenone	ND	*	210	29	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Anthracene	ND		210	53	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Atrazine	ND		210	74	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Benzaldehyde	ND		210	170	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Benzo[a]anthracene	ND		210	21	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Benzo[a]pyrene	ND		210	32	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Benzo[b]fluoranthene	ND		210	34	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Benzo[g,h,i]perylene	ND		210	23	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Benzo[k]fluoranthene	ND		210	28	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Bis(2-chloroethoxy)methane	ND		210	45	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Bis(2-chloroethyl)ether	ND		210	28	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Bis(2-ethylhexyl) phthalate	ND		210	73	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Butyl benzyl phthalate	ND		210	35	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Caprolactam	ND		210	64	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Carbazole	ND		210	25	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Chrysene	ND		210	48	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Dibenz(a,h)anthracene	ND		210	38	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Di-n-butyl phthalate	ND		210	37	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Di-n-octyl phthalate	ND		210	25	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Dibenzofuran	ND		210	25	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Diethyl phthalate	ND		210	28	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1
Dimethyl phthalate	ND		210	25	ug/Kg	*	05/26/16 07:38	05/27/16 15:09	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-15 (6-8)**

**Lab Sample ID: 480-100681-3**

**Date Collected: 05/23/16 12:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 78.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		210	23	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1
Fluorene	ND		210	25	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1
Hexachlorobenzene	ND		210	29	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1
Hexachlorobutadiene	ND		210	32	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1
Hexachlorocyclopentadiene	ND		210	29	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1
Hexachloroethane	ND		210	28	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1
Isophorone	ND		210	45	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1
N-Nitrosodi-n-propylamine	ND		210	37	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1
Naphthalene	ND		210	28	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1
Nitrobenzene	ND		210	24	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1
Pentachlorophenol	ND		420	210	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1
Phenanthrene	ND		210	32	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1
Phenol	ND		210	33	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1
Pyrene	ND		210	25	ug/Kg	☼	05/26/16 07:38	05/27/16 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	77		34 - 132	05/26/16 07:38	05/27/16 15:09	1
Phenol-d5 (Surr)	71		11 - 120	05/26/16 07:38	05/27/16 15:09	1
p-Terphenyl-d14 (Surr)	84		65 - 153	05/26/16 07:38	05/27/16 15:09	1
2,4,6-Tribromophenol (Surr)	93		39 - 146	05/26/16 07:38	05/27/16 15:09	1
2-Fluorobiphenyl	81		37 - 120	05/26/16 07:38	05/27/16 15:09	1
2-Fluorophenol (Surr)	71		18 - 120	05/26/16 07:38	05/27/16 15:09	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	*	210	31	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
bis (2-chloroisopropyl) ether	ND		210	43	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
2,4,5-Trichlorophenol	ND		210	58	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
2,4,6-Trichlorophenol	ND		210	43	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
2,4-Dichlorophenol	ND		210	23	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
2,4-Dimethylphenol	ND		210	52	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
2,4-Dinitrophenol	ND		2100	990	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
2,4-Dinitrotoluene	ND		210	44	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
2-Chloronaphthalene	ND		210	35	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
2-Chlorophenol	ND		210	39	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
2-Methylphenol	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
2-Methylnaphthalene	ND		210	43	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
2-Nitroaniline	ND		410	31	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
2-Nitrophenol	ND		210	60	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
3,3'-Dichlorobenzidine	ND		410	250	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
3-Nitroaniline	ND	*	410	59	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
4,6-Dinitro-2-methylphenol	ND		410	210	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
4-Chloro-3-methylphenol	ND		210	53	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
4-Chloroaniline	ND	*	210	53	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
4-Methylphenol	ND		410	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-15 (6-8)**

**Lab Sample ID: 480-100681-3**

**Date Collected: 05/23/16 12:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 78.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		410	110	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
4-Nitrophenol	ND		410	150	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Acenaphthene	ND		210	31	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Acenaphthylene	ND		210	28	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Acetophenone	ND		210	29	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Anthracene	ND		210	53	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Atrazine	ND		210	74	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Benzaldehyde	ND		210	170	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Benzo[a]pyrene	ND		210	31	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Benzo[b]fluoranthene	ND		210	34	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Benzo[g,h,i]perylene	ND		210	23	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Benzo[k]fluoranthene	ND		210	28	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Bis(2-chloroethoxy)methane	ND		210	45	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Bis(2-chloroethyl)ether	ND		210	28	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Bis(2-ethylhexyl) phthalate	ND		210	73	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Butyl benzyl phthalate	ND		210	35	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Caprolactam	ND		210	64	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Carbazole	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Chrysene	ND		210	48	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Dibenz(a,h)anthracene	ND		210	38	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Di-n-octyl phthalate	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Dibenzofuran	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
<b>Diethyl phthalate</b>	<b>32</b>	<b>J</b>	210	28	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Dimethyl phthalate	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Fluoranthene	ND		210	23	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Fluorene	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Hexachlorobenzene	ND		210	29	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Hexachlorocyclopentadiene	ND		210	29	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Hexachloroethane	ND		210	28	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Isophorone	ND		210	45	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Naphthalene	ND		210	28	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Nitrobenzene	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Pentachlorophenol	ND		410	210	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Phenanthrene	ND		210	31	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Phenol	ND		210	33	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
Pyrene	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:28	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5 (Surr)	73		34 - 132				06/01/16 07:31	06/01/16 21:28	1
Phenol-d5 (Surr)	66		11 - 120				06/01/16 07:31	06/01/16 21:28	1
p-Terphenyl-d14 (Surr)	76		65 - 153				06/01/16 07:31	06/01/16 21:28	1
2,4,6-Tribromophenol (Surr)	93		39 - 146				06/01/16 07:31	06/01/16 21:28	1
2-Fluorobiphenyl	73		37 - 120				06/01/16 07:31	06/01/16 21:28	1
2-Fluorophenol (Surr)	66		18 - 120				06/01/16 07:31	06/01/16 21:28	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.32	0.062	mg/Kg	☼	05/26/16 12:03	05/26/16 23:24	1
PCB-1221	ND		0.32	0.062	mg/Kg	☼	05/26/16 12:03	05/26/16 23:24	1
PCB-1232	ND		0.32	0.062	mg/Kg	☼	05/26/16 12:03	05/26/16 23:24	1
PCB-1242	ND		0.32	0.062	mg/Kg	☼	05/26/16 12:03	05/26/16 23:24	1
PCB-1248	ND		0.32	0.062	mg/Kg	☼	05/26/16 12:03	05/26/16 23:24	1
PCB-1254	ND		0.32	0.15	mg/Kg	☼	05/26/16 12:03	05/26/16 23:24	1
PCB-1260	ND		0.32	0.15	mg/Kg	☼	05/26/16 12:03	05/26/16 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	108		60 - 154				05/26/16 12:03	05/26/16 23:24	1
Tetrachloro-m-xylene	95		60 - 154				05/26/16 12:03	05/26/16 23:24	1
DCB Decachlorobiphenyl	119		65 - 174				05/26/16 12:03	05/26/16 23:24	1
DCB Decachlorobiphenyl	105		65 - 174				05/26/16 12:03	05/26/16 23:24	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>22800</b>	<b>B</b>	13.2		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
Antimony	ND		19.8		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Arsenic</b>	<b>6.1</b>		2.6		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Barium</b>	<b>230</b>		0.66		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Beryllium</b>	<b>0.93</b>		0.26		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
Cadmium	ND		0.26		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Calcium</b>	<b>51100</b>	<b>B</b>	65.9		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Chromium</b>	<b>28.4</b>		0.66		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Cobalt</b>	<b>11.9</b>		0.66		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Copper</b>	<b>22.4</b>		1.3		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Iron</b>	<b>26300</b>	<b>B</b>	13.2		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Lead</b>	<b>16.7</b>		1.3		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Magnesium</b>	<b>19400</b>	<b>B</b>	26.4		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Manganese</b>	<b>398</b>	<b>B</b>	0.26		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Nickel</b>	<b>33.6</b>		6.6		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Potassium</b>	<b>7160</b>		39.6		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
Selenium	ND		5.3		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
Silver	ND		0.79		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Sodium</b>	<b>2160</b>		185		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
Thallium	ND		7.9		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Vanadium</b>	<b>42.8</b>		0.66		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1
<b>Zinc</b>	<b>78.6</b>		2.6		mg/Kg	☼	05/31/16 10:33	05/31/16 12:30	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.025		mg/Kg	☼	05/26/16 07:00	05/27/16 10:13	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.2		mg/Kg	☼	05/27/16 14:08	05/27/16 15:21	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI MW-2 (8-10)**

**Lab Sample ID: 480-100681-4**

Date Collected: 05/23/16 14:20

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 83.1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
bis (2-chloroisopropyl) ether	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
2,4,6-Trichlorophenol	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
2,4-Dinitrophenol	ND		2000	940	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
2-Methylphenol	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
2-Methylnaphthalene	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
4-Methylphenol	ND		390	24	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Acenaphthene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Acenaphthylene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Acetophenone	ND	*	200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Anthracene	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Atrazine	ND		200	70	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Benzaldehyde	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Benzo[a]pyrene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>85</b>	<b>J</b>	200	69	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Caprolactam	ND		200	61	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Carbazole	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Chrysene	ND		200	45	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Dibenzofuran	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1

TestAmerica Buffalo



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI MW-2 (8-10)**

**Lab Sample ID: 480-100681-4**

**Date Collected: 05/23/16 14:20**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 83.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Fluorene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Hexachloroethane	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Isophorone	ND		200	43	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Naphthalene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Nitrobenzene	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Phenanthrene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Phenol	ND		200	31	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1
Pyrene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	69		34 - 132	05/26/16 07:38	05/27/16 15:36	1
Phenol-d5 (Surr)	68		11 - 120	05/26/16 07:38	05/27/16 15:36	1
p-Terphenyl-d14 (Surr)	77		65 - 153	05/26/16 07:38	05/27/16 15:36	1
2,4,6-Tribromophenol (Surr)	89		39 - 146	05/26/16 07:38	05/27/16 15:36	1
2-Fluorobiphenyl	72		37 - 120	05/26/16 07:38	05/27/16 15:36	1
2-Fluorophenol (Surr)	65		18 - 120	05/26/16 07:38	05/27/16 15:36	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	*	200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
bis (2-chloroisopropyl) ether	ND		200	41	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
2,4,6-Trichlorophenol	ND		200	41	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
2-Methylphenol	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
2-Methylnaphthalene	ND		200	41	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
3-Nitroaniline	ND	*	390	56	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
4-Chloroaniline	ND	*	200	50	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
4-Methylphenol	ND		390	24	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI MW-2 (8-10)**

**Lab Sample ID: 480-100681-4**

Date Collected: 05/23/16 14:20

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 83.1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		390	110	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Acenaphthene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Acenaphthylene	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Acetophenone	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Anthracene	ND		200	50	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Atrazine	ND		200	70	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Benzaldehyde	ND		200	160	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Benzo[a]pyrene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Caprolactam	ND		200	61	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Carbazole	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Chrysene	ND		200	45	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Dibenzofuran	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Fluoranthene	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Fluorene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Hexachloroethane	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Isophorone	ND		200	43	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Naphthalene	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Nitrobenzene	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Phenanthrene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Phenol	ND		200	31	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Pyrene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 21:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	73		34 - 132				06/01/16 07:31	06/01/16 21:54	1
Phenol-d5 (Surr)	66		11 - 120				06/01/16 07:31	06/01/16 21:54	1
p-Terphenyl-d14 (Surr)	75		65 - 153				06/01/16 07:31	06/01/16 21:54	1
2,4,6-Tribromophenol (Surr)	91		39 - 146				06/01/16 07:31	06/01/16 21:54	1
2-Fluorobiphenyl	74		37 - 120				06/01/16 07:31	06/01/16 21:54	1
2-Fluorophenol (Surr)	64		18 - 120				06/01/16 07:31	06/01/16 21:54	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.38	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
4,4'-DDE	ND		2.0	0.41	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
4,4'-DDT	ND		2.0	0.46	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
Aldrin	ND		2.0	0.48	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
alpha-BHC	ND		2.0	0.35	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
alpha-Chlordane	ND		2.0	0.98	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
beta-BHC	ND		2.0	0.35	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
delta-BHC	ND		2.0	0.37	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
Dieldrin	ND		2.0	0.47	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
Endosulfan II	ND		2.0	0.35	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
Endrin	ND		2.0	0.39	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
Endrin aldehyde	ND		2.0	0.50	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
Endrin ketone	ND		2.0	0.48	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
gamma-Chlordane	ND		2.0	0.62	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
Heptachlor	ND		2.0	0.43	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
Heptachlor epoxide	ND		2.0	0.51	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
Methoxychlor	ND		2.0	0.40	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
Toxaphene	ND		20	11	ug/Kg	☼	06/02/16 07:25	06/03/16 11:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	51		32 - 136				06/02/16 07:25	06/03/16 11:46	1
DCB Decachlorobiphenyl	70		32 - 136				06/02/16 07:25	06/03/16 11:46	1
Tetrachloro-m-xylene	51		30 - 124				06/02/16 07:25	06/03/16 11:46	1
Tetrachloro-m-xylene	60		30 - 124				06/02/16 07:25	06/03/16 11:46	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	☼	05/26/16 12:03	05/26/16 23:40	1
PCB-1221	ND		0.25	0.049	mg/Kg	☼	05/26/16 12:03	05/26/16 23:40	1
PCB-1232	ND		0.25	0.049	mg/Kg	☼	05/26/16 12:03	05/26/16 23:40	1
PCB-1242	ND		0.25	0.049	mg/Kg	☼	05/26/16 12:03	05/26/16 23:40	1
PCB-1248	ND		0.25	0.049	mg/Kg	☼	05/26/16 12:03	05/26/16 23:40	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	05/26/16 12:03	05/26/16 23:40	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	05/26/16 12:03	05/26/16 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	111		60 - 154				05/26/16 12:03	05/26/16 23:40	1
Tetrachloro-m-xylene	99		60 - 154				05/26/16 12:03	05/26/16 23:40	1
DCB Decachlorobiphenyl	126		65 - 174				05/26/16 12:03	05/26/16 23:40	1
DCB Decachlorobiphenyl	109		65 - 174				05/26/16 12:03	05/26/16 23:40	1

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.3	ug/Kg	☼	05/26/16 11:30	05/31/16 16:51	1
Silvex (2,4,5-TP)	ND		20	7.0	ug/Kg	☼	05/26/16 11:30	05/31/16 16:51	1
2,4-D	ND		20	12	ug/Kg	☼	05/26/16 11:30	05/31/16 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	69		28 - 129				05/26/16 11:30	05/31/16 16:51	1
2,4-Dichlorophenylacetic acid	83		28 - 129				05/26/16 11:30	05/31/16 16:51	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI MW-2 (8-10)**

**Lab Sample ID: 480-100681-4**

Date Collected: 05/23/16 14:20

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 83.1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8950	B	11.8		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Antimony	ND		17.7		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Arsenic	ND		2.4		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Barium	60.2		0.59		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Beryllium	0.36		0.24		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Cadmium	ND		0.24		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Calcium	64200	B	58.9		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Chromium	12.1		0.59		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Cobalt	5.8		0.59		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Copper	10.6		1.2		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Iron	12500	B	11.8		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Lead	11.7		1.2		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Magnesium	29900	B	23.6		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Manganese	378	B	0.24		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Nickel	12.3		5.9		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Potassium	3010		35.4		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Selenium	ND		4.7		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Silver	ND		0.71		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Sodium	441		165		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Thallium	ND		7.1		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Vanadium	20.2		0.59		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1
Zinc	51.7		2.4		mg/Kg	☼	05/31/16 10:33	05/31/16 12:33	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.024		mg/Kg	☼	05/26/16 07:00	05/27/16 10:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	6.3		1.2		mg/Kg	☼	05/27/16 14:08	05/27/16 15:23	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-17 (4-6)**

**Lab Sample ID: 480-100681-5**

Date Collected: 05/24/16 10:30

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 83.4

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	F1	200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
bis (2-chloroisopropyl) ether	ND	F1	200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
2,4,6-Trichlorophenol	ND	F1	200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
2,4-Dinitrophenol	ND		2000	940	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
2,6-Dinitrotoluene	ND	F1	200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
2-Chloronaphthalene	ND	F1	200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
2-Methylphenol	ND	F1	200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
2-Methylnaphthalene	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
2-Nitroaniline	ND	F1	390	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
3-Nitroaniline	ND	F1	390	56	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
4-Chloroaniline	ND	F1	200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
4-Chlorophenyl phenyl ether	ND	F1	200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
4-Methylphenol	ND	F1	390	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
4-Nitroaniline	ND	F1	390	110	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Acenaphthene	ND	F1	200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Acenaphthylene	ND	F1	200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Acetophenone	ND	F1 *	200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Anthracene	ND	F1	200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Atrazine	ND		200	70	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Benzaldehyde	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Benzo[a]anthracene	ND	F1	200	20	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Benzo[a]pyrene	ND	F1	200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Benzo[b]fluoranthene	ND	F1	200	32	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Benzo[k]fluoranthene	ND	F1	200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Bis(2-chloroethoxy)methane	ND	F1	200	43	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Bis(2-chloroethyl)ether	ND	F1	200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Bis(2-ethylhexyl) phthalate	ND	F1	200	69	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Butyl benzyl phthalate	ND	F1	200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Caprolactam	ND	F1	200	61	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Carbazole	ND	F1	200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Chrysene	ND	F1	200	45	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Di-n-octyl phthalate	ND	F1	200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Dibenzofuran	ND	F1	200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Diethyl phthalate	ND	F1	200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Dimethyl phthalate	ND	F1	200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-17 (4-6)**

**Lab Sample ID: 480-100681-5**

Date Collected: 05/24/16 10:30

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 83.4

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND	F1	200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Fluorene	ND	F1	200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Hexachloroethane	ND	F1	200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Indeno[1,2,3-cd]pyrene	ND	F1	200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Isophorone	ND	F1	200	43	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
N-Nitrosodi-n-propylamine	ND	F1	200	35	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Naphthalene	ND	F1	200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Nitrobenzene	ND	F1	200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Phenanthrene	ND	F1	200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Phenol	ND		200	31	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Pyrene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	70		34 - 132				05/26/16 07:38	05/27/16 16:02	1
Phenol-d5 (Surr)	65		11 - 120				05/26/16 07:38	05/27/16 16:02	1
p-Terphenyl-d14 (Surr)	79		65 - 153				05/26/16 07:38	05/27/16 16:02	1
2,4,6-Tribromophenol (Surr)	87		39 - 146				05/26/16 07:38	05/27/16 16:02	1
2-Fluorobiphenyl	69		37 - 120				05/26/16 07:38	05/27/16 16:02	1
2-Fluorophenol (Surr)	64		18 - 120				05/26/16 07:38	05/27/16 16:02	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	*	200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
2-Methylphenol	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
3-Nitroaniline	ND	*	390	56	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
4-Chloroaniline	ND	*	200	50	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
4-Methylphenol	ND		390	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-17 (4-6)**

**Lab Sample ID: 480-100681-5**

Date Collected: 05/24/16 10:30

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 83.4

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		390	110	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Acenaphthene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Acenaphthylene	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Acetophenone	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Anthracene	ND		200	50	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Atrazine	ND		200	70	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Benzaldehyde	ND		200	160	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Benzo[a]pyrene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Caprolactam	ND		200	61	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Carbazole	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Chrysene	ND		200	45	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Dibenzofuran	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Fluoranthene	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Fluorene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Hexachloroethane	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Isophorone	ND		200	43	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Naphthalene	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Nitrobenzene	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Phenanthrene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Phenol	ND		200	31	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Pyrene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	68		34 - 132				06/01/16 07:31	06/01/16 22:21	1
Phenol-d5 (Surr)	63		11 - 120				06/01/16 07:31	06/01/16 22:21	1
p-Terphenyl-d14 (Surr)	76		65 - 153				06/01/16 07:31	06/01/16 22:21	1
2,4,6-Tribromophenol (Surr)	87		39 - 146				06/01/16 07:31	06/01/16 22:21	1
2-Fluorobiphenyl	71		37 - 120				06/01/16 07:31	06/01/16 22:21	1
2-Fluorophenol (Surr)	63		18 - 120				06/01/16 07:31	06/01/16 22:21	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.38	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
4,4'-DDE	ND		2.0	0.41	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
4,4'-DDT	ND		2.0	0.46	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
Aldrin	ND		2.0	0.48	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
alpha-BHC	ND		2.0	0.35	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
alpha-Chlordane	ND		2.0	0.98	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
beta-BHC	ND		2.0	0.35	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
delta-BHC	ND		2.0	0.37	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
Dieldrin	ND		2.0	0.47	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
Endosulfan II	ND		2.0	0.35	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
Endrin	ND		2.0	0.39	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
Endrin aldehyde	ND		2.0	0.50	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
Endrin ketone	ND		2.0	0.48	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
gamma-Chlordane	ND	F2	2.0	0.63	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
Heptachlor	ND		2.0	0.43	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
Heptachlor epoxide	ND		2.0	0.51	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
Methoxychlor	ND		2.0	0.40	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
Toxaphene	ND		20	11	ug/Kg	☼	06/02/16 07:25	06/03/16 11:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	56		32 - 136				06/02/16 07:25	06/03/16 11:07	1
DCB Decachlorobiphenyl	70		32 - 136				06/02/16 07:25	06/03/16 11:07	1
Tetrachloro-m-xylene	50		30 - 124				06/02/16 07:25	06/03/16 11:07	1
Tetrachloro-m-xylene	58		30 - 124				06/02/16 07:25	06/03/16 11:07	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.052	mg/Kg	☼	05/26/16 12:03	05/26/16 23:56	1
PCB-1221	ND		0.27	0.052	mg/Kg	☼	05/26/16 12:03	05/26/16 23:56	1
PCB-1232	ND		0.27	0.052	mg/Kg	☼	05/26/16 12:03	05/26/16 23:56	1
PCB-1242	ND		0.27	0.052	mg/Kg	☼	05/26/16 12:03	05/26/16 23:56	1
PCB-1248	ND		0.27	0.052	mg/Kg	☼	05/26/16 12:03	05/26/16 23:56	1
PCB-1254	ND		0.27	0.12	mg/Kg	☼	05/26/16 12:03	05/26/16 23:56	1
PCB-1260	ND		0.27	0.12	mg/Kg	☼	05/26/16 12:03	05/26/16 23:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	112		60 - 154				05/26/16 12:03	05/26/16 23:56	1
Tetrachloro-m-xylene	101		60 - 154				05/26/16 12:03	05/26/16 23:56	1
DCB Decachlorobiphenyl	124		65 - 174				05/26/16 12:03	05/26/16 23:56	1
DCB Decachlorobiphenyl	111		65 - 174				05/26/16 12:03	05/26/16 23:56	1

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.3	ug/Kg	☼	05/26/16 11:30	05/31/16 17:21	1
Silvex (2,4,5-TP)	ND		20	7.1	ug/Kg	☼	05/26/16 11:30	05/31/16 17:21	1
2,4-D	ND		20	12	ug/Kg	☼	05/26/16 11:30	05/31/16 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	82		28 - 129				05/26/16 11:30	05/31/16 17:21	1
2,4-Dichlorophenylacetic acid	85		28 - 129				05/26/16 11:30	05/31/16 17:21	1

TestAmerica Buffalo



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-17 (4-6)**

**Lab Sample ID: 480-100681-5**

Date Collected: 05/24/16 10:30

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 83.4

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8140	B F1 F2	12.9		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Antimony	ND	F1 F2	19.3		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Arsenic	ND		2.6		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Barium	56.3	F1 F2	0.64		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Beryllium	0.33		0.26		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Cadmium	0.37		0.26		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Calcium	58700	B	64.5		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Chromium	11.1	F2	0.64		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Cobalt	4.7		0.64		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Copper	10		1.3		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Iron	11400	B F2	12.9		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Lead	11.8		1.3		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Magnesium	26500	B	25.8		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Manganese	330	B F2	0.26		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Nickel	10.8	F2	6.4		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Potassium	2780	F1 F2	38.7		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Selenium	ND		5.2		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Silver	ND		0.77		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Sodium	264		181		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Thallium	ND		7.7		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Vanadium	18.9	F1 F2	0.64		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1
Zinc	61.4		2.6		mg/Kg	☼	05/31/16 10:33	05/31/16 12:37	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.022		mg/Kg	☼	05/26/16 07:00	05/27/16 10:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	F2 F1	1.1		mg/Kg	☼	05/30/16 13:50	05/31/16 11:52	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-18 (2-4)**

**Lab Sample ID: 480-100681-6**

Date Collected: 05/24/16 11:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 84.0

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
1,2,4-Trichlorobenzene	ND		5.0	0.31	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Acetone	ND		25	4.2	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Benzene	ND		5.0	0.25	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Bromoform	ND		5.0	2.5	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Bromomethane	ND		5.0	0.45	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Carbon disulfide	ND		5.0	2.5	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Carbon tetrachloride	ND		5.0	0.49	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Chlorobenzene	ND		5.0	0.66	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Chloroethane	ND		5.0	1.1	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Chloroform	ND		5.0	0.31	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Chloromethane	ND		5.0	0.30	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Cyclohexane	ND		5.0	0.70	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Ethylbenzene	ND		5.0	0.35	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Isopropylbenzene	ND		5.0	0.76	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Methyl acetate	ND		5.0	3.0	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
<b>Methylene Chloride</b>	<b>3.7</b>	<b>J B</b>	5.0	2.3	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Styrene	ND		5.0	0.25	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Toluene	ND		5.0	0.38	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
<b>Trichloroethene</b>	<b>2.6</b>	<b>J</b>	5.0	1.1	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Vinyl chloride	ND		5.0	0.61	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1
Xylenes, Total	ND		10	0.84	ug/Kg	☼	05/25/16 20:39	05/26/16 01:33	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-18 (2-4)**

**Lab Sample ID: 480-100681-6**

**Date Collected: 05/24/16 11:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 84.0**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 126	05/25/16 20:39	05/26/16 01:33	1
4-Bromofluorobenzene (Surr)	114		72 - 126	05/25/16 20:39	05/26/16 01:33	1
Dibromofluoromethane (Surr)	110		60 - 140	05/25/16 20:39	05/26/16 01:33	1
Toluene-d8 (Surr)	103		71 - 125	05/25/16 20:39	05/26/16 01:33	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
2-Methylphenol	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
4-Methylphenol	ND		390	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Acenaphthene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Acenaphthylene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Acetophenone	ND	*	200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Anthracene	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Atrazine	ND		200	70	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Benzaldehyde	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Benzo[a]pyrene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Caprolactam	ND		200	61	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Carbazole	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Chrysene	ND		200	45	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-18 (2-4)**

**Lab Sample ID: 480-100681-6**

**Date Collected: 05/24/16 11:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 84.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Dibenzofuran	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Fluoranthene	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Fluorene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Hexachloroethane	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Isophorone	ND		200	43	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Naphthalene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Nitrobenzene	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Phenanthrene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Phenol	ND		200	31	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1
Pyrene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	66		34 - 132	05/26/16 07:38	05/27/16 16:29	1
Phenol-d5 (Surr)	63		11 - 120	05/26/16 07:38	05/27/16 16:29	1
p-Terphenyl-d14 (Surr)	80		65 - 153	05/26/16 07:38	05/27/16 16:29	1
2,4,6-Tribromophenol (Surr)	86		39 - 146	05/26/16 07:38	05/27/16 16:29	1
2-Fluorobiphenyl	68		37 - 120	05/26/16 07:38	05/27/16 16:29	1
2-Fluorophenol (Surr)	61		18 - 120	05/26/16 07:38	05/27/16 16:29	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	*	200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
2-Methylphenol	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
3-Nitroaniline	ND	*	390	56	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-18 (2-4)**

**Lab Sample ID: 480-100681-6**

**Date Collected: 05/24/16 11:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 84.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
4-Chloroaniline	ND	*	200	50	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
4-Methylphenol	ND		390	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Acenaphthene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Acenaphthylene	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Acetophenone	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Anthracene	ND		200	50	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Atrazine	ND		200	70	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Benzaldehyde	ND		200	160	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Benzo[a]pyrene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Caprolactam	ND		200	61	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Carbazole	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Chrysene	ND		200	45	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Dibenzofuran	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Fluoranthene	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Fluorene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Hexachloroethane	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Isophorone	ND		200	43	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Naphthalene	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Nitrobenzene	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Phenanthrene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Phenol	ND		200	31	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1
Pyrene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 22:47	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-18 (2-4)**

**Lab Sample ID: 480-100681-6**

Date Collected: 05/24/16 11:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 84.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	72		34 - 132	06/01/16 07:31	06/01/16 22:47	1
Phenol-d5 (Surr)	62		11 - 120	06/01/16 07:31	06/01/16 22:47	1
p-Terphenyl-d14 (Surr)	80		65 - 153	06/01/16 07:31	06/01/16 22:47	1
2,4,6-Tribromophenol (Surr)	92		39 - 146	06/01/16 07:31	06/01/16 22:47	1
2-Fluorobiphenyl	74		37 - 120	06/01/16 07:31	06/01/16 22:47	1
2-Fluorophenol (Surr)	63		18 - 120	06/01/16 07:31	06/01/16 22:47	1

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.057	mg/Kg	☼	05/26/16 12:03	05/27/16 00:12	1
PCB-1221	ND		0.29	0.057	mg/Kg	☼	05/26/16 12:03	05/27/16 00:12	1
PCB-1232	ND		0.29	0.057	mg/Kg	☼	05/26/16 12:03	05/27/16 00:12	1
PCB-1242	ND		0.29	0.057	mg/Kg	☼	05/26/16 12:03	05/27/16 00:12	1
PCB-1248	ND		0.29	0.057	mg/Kg	☼	05/26/16 12:03	05/27/16 00:12	1
PCB-1254	ND		0.29	0.14	mg/Kg	☼	05/26/16 12:03	05/27/16 00:12	1
PCB-1260	ND		0.29	0.14	mg/Kg	☼	05/26/16 12:03	05/27/16 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	121		60 - 154	05/26/16 12:03	05/27/16 00:12	1
Tetrachloro-m-xylene	102		60 - 154	05/26/16 12:03	05/27/16 00:12	1
DCB Decachlorobiphenyl	134		65 - 174	05/26/16 12:03	05/27/16 00:12	1
DCB Decachlorobiphenyl	113		65 - 174	05/26/16 12:03	05/27/16 00:12	1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>3460</b>	<b>B</b>	11.7		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
Antimony	ND		17.5		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
Arsenic	ND		2.3		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
<b>Barium</b>	<b>17.5</b>		0.58		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
Beryllium	ND		0.23		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
Cadmium	ND		0.23		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
<b>Calcium</b>	<b>54100</b>	<b>B</b>	58.4		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
<b>Chromium</b>	<b>5.7</b>		0.58		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
<b>Cobalt</b>	<b>2.2</b>		0.58		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
<b>Copper</b>	<b>5.2</b>		1.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
<b>Iron</b>	<b>7680</b>	<b>B</b>	11.7		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
<b>Lead</b>	<b>9.9</b>		1.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
<b>Magnesium</b>	<b>26200</b>	<b>B</b>	23.4		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
<b>Manganese</b>	<b>292</b>	<b>B</b>	0.23		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
<b>Nickel</b>	<b>116</b>		5.8		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
<b>Potassium</b>	<b>1030</b>		35.1		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
Selenium	ND		4.7		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
Silver	ND		0.70		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
<b>Sodium</b>	<b>192</b>		164		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
Thallium	ND		7.0		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
<b>Vanadium</b>	<b>13.2</b>		0.58		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1
<b>Zinc</b>	<b>25.1</b>		2.3		mg/Kg	☼	05/31/16 10:33	05/31/16 13:04	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.023		mg/Kg	☼	05/26/16 07:00	05/27/16 10:25	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	23.7		1.2		mg/Kg	☼	05/30/16 13:50	05/31/16 11:56	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-19 (2-4)**

**Lab Sample ID: 480-100681-7**

Date Collected: 05/24/16 12:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 82.1

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.4	0.39	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
1,1,2,2-Tetrachloroethane	ND		5.4	0.87	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.4	1.2	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
1,1,2-Trichloroethane	ND		5.4	0.70	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
1,1-Dichloroethane	ND		5.4	0.66	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
1,1-Dichloroethene	ND		5.4	0.66	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
1,2,4-Trichlorobenzene	ND		5.4	0.33	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
1,2-Dibromo-3-Chloropropane	ND		5.4	2.7	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
1,2-Dibromoethane	ND		5.4	0.69	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
1,2-Dichlorobenzene	ND		5.4	0.42	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
1,2-Dichloroethane	ND		5.4	0.27	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
1,2-Dichloropropane	ND		5.4	2.7	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
1,3-Dichlorobenzene	ND		5.4	0.28	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
1,4-Dichlorobenzene	ND		5.4	0.75	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
2-Butanone (MEK)	ND		27	2.0	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
2-Hexanone	ND		27	2.7	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Acetone	ND		27	4.5	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Benzene	ND		5.4	0.26	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Bromodichloromethane	ND		5.4	0.72	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Bromoform	ND		5.4	2.7	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Bromomethane	ND		5.4	0.48	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Carbon disulfide	ND		5.4	2.7	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Carbon tetrachloride	ND		5.4	0.52	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Chlorobenzene	ND		5.4	0.71	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Chloroethane	ND		5.4	1.2	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Chloroform	ND		5.4	0.33	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Chloromethane	ND		5.4	0.32	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
cis-1,2-Dichloroethene	ND		5.4	0.69	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
cis-1,3-Dichloropropene	ND		5.4	0.77	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Cyclohexane	ND		5.4	0.75	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Dibromochloromethane	ND		5.4	0.69	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Dichlorodifluoromethane	ND		5.4	0.44	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Ethylbenzene	ND		5.4	0.37	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Isopropylbenzene	ND		5.4	0.81	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Methyl acetate	ND		5.4	3.2	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Methyl tert-butyl ether	ND		5.4	0.53	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Methylcyclohexane	ND		5.4	0.82	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
<b>Methylene Chloride</b>	<b>5.3</b>	<b>J B</b>	5.4	2.5	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Styrene	ND		5.4	0.27	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Tetrachloroethene	ND		5.4	0.72	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Toluene	ND		5.4	0.41	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
trans-1,2-Dichloroethene	ND		5.4	0.55	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
trans-1,3-Dichloropropene	ND		5.4	2.4	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
<b>Trichloroethene</b>	<b>1.6</b>	<b>J</b>	5.4	1.2	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Trichlorofluoromethane	ND		5.4	0.51	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Vinyl chloride	ND		5.4	0.66	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1
Xylenes, Total	ND		11	0.90	ug/Kg	☼	05/25/16 20:39	05/26/16 01:58	1

TestAmerica Buffalo



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-19 (2-4)**

**Lab Sample ID: 480-100681-7**

**Date Collected: 05/24/16 12:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 82.1**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126	05/25/16 20:39	05/26/16 01:58	1
4-Bromofluorobenzene (Surr)	110		72 - 126	05/25/16 20:39	05/26/16 01:58	1
Dibromofluoromethane (Surr)	109		60 - 140	05/25/16 20:39	05/26/16 01:58	1
Toluene-d8 (Surr)	105		71 - 125	05/25/16 20:39	05/26/16 01:58	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
bis (2-chloroisopropyl) ether	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
2,4,6-Trichlorophenol	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
2,4-Dichlorophenol	ND		200	22	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
2,4-Dinitrophenol	ND		2000	940	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
2-Methylphenol	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
2-Methylnaphthalene	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
4-Methylphenol	ND		390	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Acenaphthene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Acenaphthylene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Acetophenone	ND	*	200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Anthracene	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Atrazine	ND		200	70	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Benzaldehyde	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Benzo[a]pyrene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Benzo[g,h,i]perylene	ND		200	22	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Caprolactam	ND		200	61	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Carbazole	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Chrysene	ND		200	45	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-19 (2-4)**

**Lab Sample ID: 480-100681-7**

Date Collected: 05/24/16 12:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 82.1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
<b>Di-n-butyl phthalate</b>	<b>78</b>	<b>J</b>	200	35	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Dibenzofuran	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Fluoranthene	ND		200	22	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Fluorene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Hexachloroethane	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Isophorone	ND		200	43	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Naphthalene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Nitrobenzene	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Phenanthrene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Phenol	ND		200	31	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1
Pyrene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	68		34 - 132	05/26/16 07:38	05/27/16 16:56	1
Phenol-d5 (Surr)	65		11 - 120	05/26/16 07:38	05/27/16 16:56	1
p-Terphenyl-d14 (Surr)	79		65 - 153	05/26/16 07:38	05/27/16 16:56	1
2,4,6-Tribromophenol (Surr)	89		39 - 146	05/26/16 07:38	05/27/16 16:56	1
2-Fluorobiphenyl	72		37 - 120	05/26/16 07:38	05/27/16 16:56	1
2-Fluorophenol (Surr)	64		18 - 120	05/26/16 07:38	05/27/16 16:56	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	*	210	30	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
bis (2-chloroisopropyl) ether	ND		210	41	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
2,4,5-Trichlorophenol	ND		210	56	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
2,4,6-Trichlorophenol	ND		210	41	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
2,4-Dimethylphenol	ND		210	50	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
2,4-Dinitrophenol	ND		2000	950	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
2,6-Dinitrotoluene	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
2-Chlorophenol	ND		210	38	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
2-Methylphenol	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
2-Methylnaphthalene	ND		210	41	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
2-Nitrophenol	ND		210	58	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
3-Nitroaniline	ND	*	400	57	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-19 (2-4)**

**Lab Sample ID: 480-100681-7**

**Date Collected: 05/24/16 12:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 82.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		400	210	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
4-Bromophenyl phenyl ether	ND		210	29	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
4-Chloro-3-methylphenol	ND		210	51	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
4-Chloroaniline	ND	*	210	51	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
4-Methylphenol	ND		400	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Acenaphthene	ND		210	30	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Acenaphthylene	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Acetophenone	ND		210	28	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Anthracene	ND		210	51	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Atrazine	ND		210	72	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Benzaldehyde	ND		210	160	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Benzo[a]pyrene	ND		210	30	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Benzo[b]fluoranthene	ND		210	33	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Benzo[g,h,i]perylene	ND		210	22	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Benzo[k]fluoranthene	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Bis(2-ethylhexyl) phthalate	ND		210	71	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Caprolactam	ND		210	62	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Carbazole	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Chrysene	ND		210	46	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
<b>Di-n-butyl phthalate</b>	<b>530</b>		210	35	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Di-n-octyl phthalate	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Dibenzofuran	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Dimethyl phthalate	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Fluoranthene	ND		210	22	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Fluorene	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Hexachlorobutadiene	ND		210	30	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Hexachloroethane	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Isophorone	ND		210	44	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
N-Nitrosodi-n-propylamine	ND		210	35	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Naphthalene	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Nitrobenzene	ND		210	23	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Pentachlorophenol	ND		400	210	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Phenanthrene	ND		210	30	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Phenol	ND		210	32	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1
Pyrene	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:14	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-19 (2-4)**

**Lab Sample ID: 480-100681-7**

**Date Collected: 05/24/16 12:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 82.1**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	72		34 - 132	06/01/16 07:31	06/01/16 23:14	1
Phenol-d5 (Surr)	65		11 - 120	06/01/16 07:31	06/01/16 23:14	1
p-Terphenyl-d14 (Surr)	74		65 - 153	06/01/16 07:31	06/01/16 23:14	1
2,4,6-Tribromophenol (Surr)	88		39 - 146	06/01/16 07:31	06/01/16 23:14	1
2-Fluorobiphenyl	75		37 - 120	06/01/16 07:31	06/01/16 23:14	1
2-Fluorophenol (Surr)	63		18 - 120	06/01/16 07:31	06/01/16 23:14	1

## Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.39	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
4,4'-DDE	ND		2.0	0.42	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
4,4'-DDT	ND		2.0	0.46	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
Aldrin	ND		2.0	0.49	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
alpha-Chlordane	ND		2.0	0.99	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
delta-BHC	ND		2.0	0.37	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
Dieldrin	ND		2.0	0.48	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
Endrin	ND		2.0	0.39	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
Endrin aldehyde	ND		2.0	0.51	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
Endrin ketone	ND		2.0	0.49	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
gamma-Chlordane	ND		2.0	0.63	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
Heptachlor	ND		2.0	0.43	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
Heptachlor epoxide	ND		2.0	0.51	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
Methoxychlor	ND		2.0	0.40	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1
Toxaphene	ND		20	12	ug/Kg	☼	06/02/16 07:25	06/03/16 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	53		32 - 136	06/02/16 07:25	06/03/16 12:06	1
DCB Decachlorobiphenyl	74		32 - 136	06/02/16 07:25	06/03/16 12:06	1
Tetrachloro-m-xylene	54		30 - 124	06/02/16 07:25	06/03/16 12:06	1
Tetrachloro-m-xylene	62		30 - 124	06/02/16 07:25	06/03/16 12:06	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.046	mg/Kg	☼	05/26/16 12:03	05/27/16 00:28	1
PCB-1221	ND		0.23	0.046	mg/Kg	☼	05/26/16 12:03	05/27/16 00:28	1
PCB-1232	ND		0.23	0.046	mg/Kg	☼	05/26/16 12:03	05/27/16 00:28	1
PCB-1242	ND		0.23	0.046	mg/Kg	☼	05/26/16 12:03	05/27/16 00:28	1
PCB-1248	ND		0.23	0.046	mg/Kg	☼	05/26/16 12:03	05/27/16 00:28	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	05/26/16 12:03	05/27/16 00:28	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	05/26/16 12:03	05/27/16 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	110		60 - 154	05/26/16 12:03	05/27/16 00:28	1
Tetrachloro-m-xylene	100		60 - 154	05/26/16 12:03	05/27/16 00:28	1
DCB Decachlorobiphenyl	122		65 - 174	05/26/16 12:03	05/27/16 00:28	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Client Sample ID: RI SB-19 (2-4)

## Lab Sample ID: 480-100681-7

Date Collected: 05/24/16 12:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 82.1

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	110		65 - 174	05/26/16 12:03	05/27/16 00:28	1

### Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.4	ug/Kg	☼	05/26/16 11:30	05/31/16 17:51	1
Silvex (2,4,5-TP)	ND		20	7.2	ug/Kg	☼	05/26/16 11:30	05/31/16 17:51	1
2,4-D	ND		20	13	ug/Kg	☼	05/26/16 11:30	05/31/16 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	83		28 - 129	05/26/16 11:30	05/31/16 17:51	1
2,4-Dichlorophenylacetic acid	76		28 - 129	05/26/16 11:30	05/31/16 17:51	1

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9960	B	12.8		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Antimony	ND		19.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Arsenic	ND		2.6		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Barium	49.2		0.64		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Beryllium	0.39		0.26		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Cadmium	0.32		0.26		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Calcium	60100	B	64.0		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Chromium	13.7		0.64		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Cobalt	5.2		0.64		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Copper	10.7		1.3		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Iron	13400	B	12.8		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Lead	21.9		1.3		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Magnesium	26400	B	25.6		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Manganese	357	B	0.26		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Nickel	12.7		6.4		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Potassium	3400		38.4		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Selenium	ND		5.1		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Silver	ND		0.77		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Sodium	252		179		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Thallium	ND		7.7		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Vanadium	22.4		0.64		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1
Zinc	77.7		2.6		mg/Kg	☼	05/31/16 10:33	05/31/16 13:07	1

### Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.022		mg/Kg	☼	05/26/16 07:00	05/27/16 10:27	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	15.9		1.2		mg/Kg	☼	05/30/16 13:50	05/31/16 11:58	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: BLIND DUP**

**Lab Sample ID: 480-100681-8**

**Date Collected: 05/24/16 08:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 82.6**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.1	0.37	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
1,1,2,2-Tetrachloroethane	ND		5.1	0.83	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.1	1.2	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
1,1,2-Trichloroethane	ND		5.1	0.67	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
1,1-Dichloroethane	ND		5.1	0.63	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
1,1-Dichloroethene	ND		5.1	0.63	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
1,2,4-Trichlorobenzene	ND		5.1	0.31	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
1,2-Dibromo-3-Chloropropane	ND		5.1	2.6	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
1,2-Dibromoethane	ND		5.1	0.66	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
1,2-Dichlorobenzene	ND		5.1	0.40	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
1,2-Dichloroethane	ND		5.1	0.26	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
1,2-Dichloropropane	ND		5.1	2.6	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
1,3-Dichlorobenzene	ND		5.1	0.26	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
1,4-Dichlorobenzene	ND		5.1	0.72	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
2-Butanone (MEK)	ND		26	1.9	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
2-Hexanone	ND		26	2.6	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Acetone	ND		26	4.3	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Benzene	ND		5.1	0.25	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Bromodichloromethane	ND		5.1	0.69	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Bromoform	ND		5.1	2.6	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Bromomethane	ND		5.1	0.46	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Carbon disulfide	ND		5.1	2.6	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Carbon tetrachloride	ND		5.1	0.50	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Chlorobenzene	ND		5.1	0.68	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Chloroethane	ND		5.1	1.2	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Chloroform	ND		5.1	0.32	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Chloromethane	ND		5.1	0.31	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
cis-1,2-Dichloroethene	ND		5.1	0.66	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
cis-1,3-Dichloropropene	ND		5.1	0.74	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Cyclohexane	ND		5.1	0.72	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Dibromochloromethane	ND		5.1	0.66	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Dichlorodifluoromethane	ND		5.1	0.42	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Ethylbenzene	ND		5.1	0.35	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Isopropylbenzene	ND		5.1	0.77	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Methyl acetate	ND		5.1	3.1	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Methyl tert-butyl ether	ND		5.1	0.50	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Methylcyclohexane	ND		5.1	0.78	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
<b>Methylene Chloride</b>	<b>3.6</b>	<b>J B</b>	5.1	2.4	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Styrene	ND		5.1	0.26	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Tetrachloroethene	ND		5.1	0.69	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Toluene	ND		5.1	0.39	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
trans-1,2-Dichloroethene	ND		5.1	0.53	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
trans-1,3-Dichloropropene	ND		5.1	2.3	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Trichloroethene	ND		5.1	1.1	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Trichlorofluoromethane	ND		5.1	0.49	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Vinyl chloride	ND		5.1	0.63	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1
Xylenes, Total	ND		10	0.86	ug/Kg	☼	05/25/16 20:39	05/26/16 02:24	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: BLIND DUP**

**Lab Sample ID: 480-100681-8**

**Date Collected: 05/24/16 08:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 82.6**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 126	05/25/16 20:39	05/26/16 02:24	1
4-Bromofluorobenzene (Surr)	115		72 - 126	05/25/16 20:39	05/26/16 02:24	1
Dibromofluoromethane (Surr)	108		60 - 140	05/25/16 20:39	05/26/16 02:24	1
Toluene-d8 (Surr)	104		71 - 125	05/25/16 20:39	05/26/16 02:24	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
bis (2-chloroisopropyl) ether	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
2,4,6-Trichlorophenol	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
2-Methylphenol	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
2-Methylnaphthalene	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
4-Methylphenol	ND		390	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Acenaphthene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Acenaphthylene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Acetophenone	ND	*	200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Anthracene	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Atrazine	ND		200	70	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Benzaldehyde	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Benzo[a]pyrene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Caprolactam	ND		200	61	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Carbazole	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Chrysene	ND		200	45	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: BLIND DUP**

**Lab Sample ID: 480-100681-8**

**Date Collected: 05/24/16 08:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 82.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
<b>Di-n-butyl phthalate</b>	<b>66</b>	<b>J</b>	200	35	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Dibenzofuran	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Fluoranthene	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Fluorene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Hexachloroethane	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Isophorone	ND		200	43	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Naphthalene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Nitrobenzene	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Phenanthrene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Phenol	ND		200	31	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1
Pyrene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	71		34 - 132	05/26/16 07:38	05/27/16 17:22	1
Phenol-d5 (Surr)	69		11 - 120	05/26/16 07:38	05/27/16 17:22	1
p-Terphenyl-d14 (Surr)	76		65 - 153	05/26/16 07:38	05/27/16 17:22	1
2,4,6-Tribromophenol (Surr)	84		39 - 146	05/26/16 07:38	05/27/16 17:22	1
2-Fluorobiphenyl	72		37 - 120	05/26/16 07:38	05/27/16 17:22	1
2-Fluorophenol (Surr)	67		18 - 120	05/26/16 07:38	05/27/16 17:22	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	*	200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
2-Methylphenol	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
3-Nitroaniline	ND	*	390	56	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1

TestAmerica Buffalo



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: BLIND DUP**

**Lab Sample ID: 480-100681-8**

**Date Collected: 05/24/16 08:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 82.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
4-Chloroaniline	ND	*	200	50	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
4-Methylphenol	ND		390	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Acenaphthene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Acenaphthylene	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Acetophenone	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Anthracene	ND		200	50	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Atrazine	ND		200	70	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Benzaldehyde	ND		200	160	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Benzo[a]pyrene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Caprolactam	ND		200	60	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Carbazole	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Chrysene	ND		200	45	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Dibenzofuran	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Fluoranthene	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Fluorene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Hexachloroethane	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Isophorone	ND		200	43	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Naphthalene	ND		200	26	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Nitrobenzene	ND		200	22	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Phenanthrene	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Phenol	ND		200	31	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1
Pyrene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/01/16 23:40	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Client Sample ID: BLIND DUP

## Lab Sample ID: 480-100681-8

Date Collected: 05/24/16 08:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 82.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	70		34 - 132	06/01/16 07:31	06/01/16 23:40	1
Phenol-d5 (Surr)	64		11 - 120	06/01/16 07:31	06/01/16 23:40	1
p-Terphenyl-d14 (Surr)	75		65 - 153	06/01/16 07:31	06/01/16 23:40	1
2,4,6-Tribromophenol (Surr)	90		39 - 146	06/01/16 07:31	06/01/16 23:40	1
2-Fluorobiphenyl	74		37 - 120	06/01/16 07:31	06/01/16 23:40	1
2-Fluorophenol (Surr)	65		18 - 120	06/01/16 07:31	06/01/16 23:40	1

### Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.39	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
4,4'-DDE	ND		2.0	0.42	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
4,4'-DDT	ND		2.0	0.47	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
Aldrin	ND		2.0	0.50	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
alpha-Chlordane	ND		2.0	1.0	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
delta-BHC	ND		2.0	0.37	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
Dieldrin	ND		2.0	0.48	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
Endosulfan I	ND		2.0	0.39	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
Endrin	ND		2.0	0.40	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
Endrin aldehyde	ND		2.0	0.51	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
Endrin ketone	ND		2.0	0.50	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
gamma-BHC (Lindane)	ND		2.0	0.37	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
gamma-Chlordane	ND		2.0	0.64	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
Heptachlor	ND		2.0	0.44	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
Heptachlor epoxide	ND		2.0	0.52	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
Methoxychlor	ND		2.0	0.41	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1
Toxaphene	ND		20	12	ug/Kg	☼	06/02/16 07:25	06/03/16 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	50		32 - 136	06/02/16 07:25	06/03/16 12:25	1
DCB Decachlorobiphenyl	73		32 - 136	06/02/16 07:25	06/03/16 12:25	1
Tetrachloro-m-xylene	49		30 - 124	06/02/16 07:25	06/03/16 12:25	1
Tetrachloro-m-xylene	59		30 - 124	06/02/16 07:25	06/03/16 12:25	1

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.057	mg/Kg	☼	05/26/16 12:03	05/27/16 00:44	1
PCB-1221	ND		0.29	0.057	mg/Kg	☼	05/26/16 12:03	05/27/16 00:44	1
PCB-1232	ND		0.29	0.057	mg/Kg	☼	05/26/16 12:03	05/27/16 00:44	1
PCB-1242	ND		0.29	0.057	mg/Kg	☼	05/26/16 12:03	05/27/16 00:44	1
PCB-1248	ND		0.29	0.057	mg/Kg	☼	05/26/16 12:03	05/27/16 00:44	1
PCB-1254	ND		0.29	0.14	mg/Kg	☼	05/26/16 12:03	05/27/16 00:44	1
PCB-1260	ND		0.29	0.14	mg/Kg	☼	05/26/16 12:03	05/27/16 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	117		60 - 154	05/26/16 12:03	05/27/16 00:44	1
Tetrachloro-m-xylene	106		60 - 154	05/26/16 12:03	05/27/16 00:44	1
DCB Decachlorobiphenyl	131		65 - 174	05/26/16 12:03	05/27/16 00:44	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Client Sample ID: BLIND DUP

Lab Sample ID: 480-100681-8

Date Collected: 05/24/16 08:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 82.6

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	115		65 - 174	05/26/16 12:03	05/27/16 00:44	1

### Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20	6.4	ug/Kg	☼	05/26/16 11:30	05/31/16 18:21	1
Silvex (2,4,5-TP)	ND		20	7.2	ug/Kg	☼	05/26/16 11:30	05/31/16 18:21	1
2,4-D	ND		20	13	ug/Kg	☼	05/26/16 11:30	05/31/16 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	74		28 - 129	05/26/16 11:30	05/31/16 18:21	1
2,4-Dichlorophenylacetic acid	93		28 - 129	05/26/16 11:30	05/31/16 18:21	1

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10200	B	12.0		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Antimony	ND		18.1		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Arsenic	ND		2.4		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Barium	48.7		0.60		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Beryllium	0.40		0.24		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Cadmium	ND		0.24		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Calcium	58000	B	60.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Chromium	13.5		0.60		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Cobalt	6.3		0.60		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Copper	10.2		1.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Iron	12900	B	12.0		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Lead	14.1		1.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Magnesium	26400	B	24.1		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Manganese	370	B	0.24		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Nickel	13.4		6.0		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Potassium	3500		36.1		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Selenium	ND		4.8		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Silver	ND		0.72		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Sodium	266		169		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Thallium	ND		7.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Vanadium	22.9		0.60		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1
Zinc	57.3		2.4		mg/Kg	☼	05/31/16 10:33	05/31/16 13:11	1

### Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.023		mg/Kg	☼	05/26/16 07:00	05/27/16 10:30	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.2		mg/Kg	☼	05/30/16 13:50	05/31/16 11:59	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-20 (4-6)**

**Lab Sample ID: 480-100681-9**

**Date Collected: 05/24/16 12:30**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 81.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		210	30	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
bis (2-chloroisopropyl) ether	ND		210	41	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
2,4,5-Trichlorophenol	ND		210	56	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
2,4,6-Trichlorophenol	ND		210	41	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
2,4-Dimethylphenol	ND		210	50	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
2,4-Dinitrophenol	ND		2000	950	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
2,6-Dinitrotoluene	ND		210	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
2-Chlorophenol	ND		210	38	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
2-Methylphenol	ND		210	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
2-Methylnaphthalene	ND		210	41	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
2-Nitrophenol	ND		210	58	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
3-Nitroaniline	ND		400	57	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
4,6-Dinitro-2-methylphenol	ND		400	210	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
4-Bromophenyl phenyl ether	ND		210	29	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
4-Chloro-3-methylphenol	ND		210	51	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
4-Chloroaniline	ND		210	51	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
4-Methylphenol	ND		400	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Acenaphthene	ND		210	30	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Acenaphthylene	ND		210	27	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Acetophenone	ND	*	210	28	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Anthracene	ND		210	51	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Atrazine	ND		210	72	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Benzaldehyde	ND		210	160	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Benzo[a]pyrene	ND		210	30	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Benzo[b]fluoranthene	ND		210	33	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Benzo[g,h,i]perylene	ND		210	22	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Benzo[k]fluoranthene	ND		210	27	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Bis(2-ethylhexyl) phthalate	ND		210	71	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Caprolactam	ND		210	62	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Carbazole	ND		210	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Chrysene	ND		210	46	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Dibenz(a,h)anthracene	ND		210	36	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Di-n-butyl phthalate	ND		210	35	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Di-n-octyl phthalate	ND		210	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Dibenzofuran	ND		210	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Dimethyl phthalate	ND		210	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-20 (4-6)**

**Lab Sample ID: 480-100681-9**

**Date Collected: 05/24/16 12:30**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 81.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		210	22	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Fluorene	ND		210	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Hexachlorobutadiene	ND		210	30	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Hexachloroethane	ND		210	27	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Isophorone	ND		210	44	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
N-Nitrosodi-n-propylamine	ND		210	35	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Naphthalene	ND		210	27	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Nitrobenzene	ND		210	23	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Pentachlorophenol	ND		400	210	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Phenanthrene	ND		210	30	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Phenol	ND		210	32	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Pyrene	ND		210	24	ug/Kg	☼	05/26/16 07:38	05/27/16 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	58		34 - 132				05/26/16 07:38	05/27/16 17:48	1
Phenol-d5 (Surr)	56		11 - 120				05/26/16 07:38	05/27/16 17:48	1
p-Terphenyl-d14 (Surr)	76		65 - 153				05/26/16 07:38	05/27/16 17:48	1
2,4,6-Tribromophenol (Surr)	84		39 - 146				05/26/16 07:38	05/27/16 17:48	1
2-Fluorobiphenyl	64		37 - 120				05/26/16 07:38	05/27/16 17:48	1
2-Fluorophenol (Surr)	53		18 - 120				05/26/16 07:38	05/27/16 17:48	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	*	210	30	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
bis (2-chloroisopropyl) ether	ND		210	41	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
2,4,5-Trichlorophenol	ND		210	56	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
2,4,6-Trichlorophenol	ND		210	41	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
2,4-Dimethylphenol	ND		210	50	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
2,4-Dinitrophenol	ND		2000	950	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
2,4-Dinitrotoluene	ND		210	42	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
2,6-Dinitrotoluene	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
2-Chlorophenol	ND		210	37	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
2-Methylphenol	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
2-Methylnaphthalene	ND		210	41	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
2-Nitrophenol	ND		210	58	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
3-Nitroaniline	ND	*	400	57	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
4,6-Dinitro-2-methylphenol	ND		400	210	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
4-Bromophenyl phenyl ether	ND		210	29	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
4-Chloro-3-methylphenol	ND		210	51	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
4-Chloroaniline	ND	*	210	51	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
4-Chlorophenyl phenyl ether	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
4-Methylphenol	ND		400	24	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-20 (4-6)**

**Lab Sample ID: 480-100681-9**

**Date Collected: 05/24/16 12:30**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 81.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		400	110	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Acenaphthene	ND		210	30	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Acenaphthylene	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Acetophenone	ND		210	28	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Anthracene	ND		210	51	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Atrazine	ND		210	71	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Benzaldehyde	ND		210	160	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Benzo[a]pyrene	ND		210	30	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Benzo[b]fluoranthene	ND		210	33	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Benzo[g,h,i]perylene	ND		210	22	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Benzo[k]fluoranthene	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Bis(2-ethylhexyl) phthalate	ND		210	70	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Caprolactam	ND		210	62	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Carbazole	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Chrysene	ND		210	46	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Dibenz(a,h)anthracene	ND		210	36	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Di-n-butyl phthalate	ND		210	35	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Di-n-octyl phthalate	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Dibenzofuran	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Dimethyl phthalate	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Fluoranthene	ND		210	22	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Fluorene	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Hexachlorobutadiene	ND		210	30	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Hexachloroethane	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Indeno[1,2,3-cd]pyrene	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Isophorone	ND		210	44	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
N-Nitrosodi-n-propylamine	ND		210	35	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Naphthalene	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Nitrobenzene	ND		210	23	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Pentachlorophenol	ND		400	210	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Phenanthrene	ND		210	30	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Phenol	ND		210	31	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Pyrene	ND		210	24	ug/Kg	☼	06/01/16 07:31	06/02/16 00:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	63		34 - 132				06/01/16 07:31	06/02/16 00:06	1
Phenol-d5 (Surr)	59		11 - 120				06/01/16 07:31	06/02/16 00:06	1
p-Terphenyl-d14 (Surr)	73		65 - 153				06/01/16 07:31	06/02/16 00:06	1
2,4,6-Tribromophenol (Surr)	85		39 - 146				06/01/16 07:31	06/02/16 00:06	1
2-Fluorobiphenyl	69		37 - 120				06/01/16 07:31	06/02/16 00:06	1
2-Fluorophenol (Surr)	58		18 - 120				06/01/16 07:31	06/02/16 00:06	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	☼	05/26/16 12:03	05/27/16 01:00	1
PCB-1221	ND		0.23	0.045	mg/Kg	☼	05/26/16 12:03	05/27/16 01:00	1
PCB-1232	ND		0.23	0.045	mg/Kg	☼	05/26/16 12:03	05/27/16 01:00	1
PCB-1242	ND		0.23	0.045	mg/Kg	☼	05/26/16 12:03	05/27/16 01:00	1
PCB-1248	ND		0.23	0.045	mg/Kg	☼	05/26/16 12:03	05/27/16 01:00	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	05/26/16 12:03	05/27/16 01:00	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	05/26/16 12:03	05/27/16 01:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	106		60 - 154				05/26/16 12:03	05/27/16 01:00	1
Tetrachloro-m-xylene	96		60 - 154				05/26/16 12:03	05/27/16 01:00	1
DCB Decachlorobiphenyl	119		65 - 174				05/26/16 12:03	05/27/16 01:00	1
DCB Decachlorobiphenyl	106		65 - 174				05/26/16 12:03	05/27/16 01:00	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15100	B	12.5		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Antimony	ND		18.8		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Arsenic	ND		2.5		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Barium	74.8		0.63		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Beryllium	0.58		0.25		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Cadmium	ND		0.25		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Calcium	59400	B	62.5		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Chromium	18.2		0.63		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Cobalt	7.8		0.63		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Copper	12.3		1.3		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Iron	17000	B	12.5		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Lead	13.4		1.3		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Magnesium	24700	B	25.0		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Manganese	415	B	0.25		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Nickel	18.2		6.3		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Potassium	5430		37.5		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Selenium	ND		5.0		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Silver	ND		0.75		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Sodium	331		175		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Thallium	ND		7.5		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Vanadium	28.9		0.63		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1
Zinc	59.7		2.5		mg/Kg	☼	05/31/16 10:33	05/31/16 13:14	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.023		mg/Kg	☼	05/26/16 07:00	05/27/16 10:31	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	1.8		1.2		mg/Kg	☼	05/30/16 13:50	05/31/16 12:01	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-21 (6-8)**

**Lab Sample ID: 480-100681-10**

**Date Collected: 05/24/16 13:40**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 85.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
2,4-Dinitrophenol	ND		1900	910	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
2-Methylphenol	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
3-Nitroaniline	ND		380	55	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
4-Methylphenol	ND		380	23	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Acenaphthene	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Acenaphthylene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Acetophenone	ND	*	200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Anthracene	ND		200	49	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Atrazine	ND		200	69	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Benzaldehyde	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Caprolactam	ND		200	59	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Carbazole	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Chrysene	ND		200	44	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Dibenzofuran	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-21 (6-8)**

**Lab Sample ID: 480-100681-10**

**Date Collected: 05/24/16 13:40**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 85.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Fluorene	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Hexachloroethane	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Isophorone	ND		200	42	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Naphthalene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Nitrobenzene	ND		200	22	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Phenanthrene	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Phenol	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Pyrene	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	69		34 - 132				05/26/16 07:38	05/27/16 18:15	1
Phenol-d5 (Surr)	66		11 - 120				05/26/16 07:38	05/27/16 18:15	1
p-Terphenyl-d14 (Surr)	78		65 - 153				05/26/16 07:38	05/27/16 18:15	1
2,4,6-Tribromophenol (Surr)	84		39 - 146				05/26/16 07:38	05/27/16 18:15	1
2-Fluorobiphenyl	71		37 - 120				05/26/16 07:38	05/27/16 18:15	1
2-Fluorophenol (Surr)	65		18 - 120				05/26/16 07:38	05/27/16 18:15	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	*	190	28	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
2,4-Dinitrophenol	ND		1900	880	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
2-Methylphenol	ND		190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
3,3'-Dichlorobenzidine	ND		370	230	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
3-Nitroaniline	ND	*	370	53	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
4-Chloroaniline	ND	*	190	47	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
4-Methylphenol	ND		370	23	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-21 (6-8)**

**Lab Sample ID: 480-100681-10**

**Date Collected: 05/24/16 13:40**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 85.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		370	100	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Acenaphthene	ND		190	28	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Acenaphthylene	ND		190	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Acetophenone	ND		190	26	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Anthracene	ND		190	47	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Atrazine	ND		190	67	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Benzaldehyde	ND		190	150	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Bis(2-ethylhexyl) phthalate	ND		190	65	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Caprolactam	ND		190	58	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Carbazole	ND		190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Chrysene	ND		190	43	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Dibenzofuran	ND		190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Fluoranthene	ND		190	20	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Fluorene	ND		190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Hexachloroethane	ND		190	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Isophorone	ND		190	41	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Naphthalene	ND		190	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Nitrobenzene	ND		190	21	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Phenanthrene	ND		190	28	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Phenol	ND		190	29	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Pyrene	ND		190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	69		34 - 132				06/01/16 07:31	06/02/16 00:33	1
Phenol-d5 (Surr)	61		11 - 120				06/01/16 07:31	06/02/16 00:33	1
p-Terphenyl-d14 (Surr)	74		65 - 153				06/01/16 07:31	06/02/16 00:33	1
2,4,6-Tribromophenol (Surr)	87		39 - 146				06/01/16 07:31	06/02/16 00:33	1
2-Fluorobiphenyl	73		37 - 120				06/01/16 07:31	06/02/16 00:33	1
2-Fluorophenol (Surr)	61		18 - 120				06/01/16 07:31	06/02/16 00:33	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.046	mg/Kg	☼	05/26/16 12:03	05/27/16 01:16	1
PCB-1221	ND		0.24	0.046	mg/Kg	☼	05/26/16 12:03	05/27/16 01:16	1
PCB-1232	ND		0.24	0.046	mg/Kg	☼	05/26/16 12:03	05/27/16 01:16	1
PCB-1242	ND		0.24	0.046	mg/Kg	☼	05/26/16 12:03	05/27/16 01:16	1
PCB-1248	ND		0.24	0.046	mg/Kg	☼	05/26/16 12:03	05/27/16 01:16	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	05/26/16 12:03	05/27/16 01:16	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	05/26/16 12:03	05/27/16 01:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	116		60 - 154				05/26/16 12:03	05/27/16 01:16	1
Tetrachloro-m-xylene	100		60 - 154				05/26/16 12:03	05/27/16 01:16	1
DCB Decachlorobiphenyl	130		65 - 174				05/26/16 12:03	05/27/16 01:16	1
DCB Decachlorobiphenyl	107		65 - 174				05/26/16 12:03	05/27/16 01:16	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>14100</b>	<b>B</b>	11.5		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
Antimony	ND		17.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
Arsenic	ND		2.3		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
<b>Barium</b>	<b>74.0</b>		0.57		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
<b>Beryllium</b>	<b>0.52</b>		0.23		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
Cadmium	ND		0.23		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
<b>Calcium</b>	<b>61600</b>	<b>B</b>	57.3		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
<b>Chromium</b>	<b>16.9</b>		0.57		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
<b>Cobalt</b>	<b>7.0</b>		0.57		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
<b>Copper</b>	<b>12.2</b>		1.1		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
<b>Iron</b>	<b>15200</b>	<b>B</b>	11.5		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
<b>Lead</b>	<b>14.6</b>		1.1		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
<b>Magnesium</b>	<b>27000</b>	<b>B</b>	22.9		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
<b>Manganese</b>	<b>411</b>	<b>B</b>	0.23		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
<b>Nickel</b>	<b>16.9</b>		5.7		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
<b>Potassium</b>	<b>5050</b>		34.4		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
Selenium	ND		4.6		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
Silver	ND		0.69		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
<b>Sodium</b>	<b>292</b>		160		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
Thallium	ND		6.9		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
<b>Vanadium</b>	<b>27.5</b>		0.57		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1
<b>Zinc</b>	<b>58.8</b>		2.3		mg/Kg	☼	05/31/16 10:33	05/31/16 13:18	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021		mg/Kg	☼	05/26/16 07:00	05/27/16 10:32	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.2		mg/Kg	☼	05/30/16 13:50	05/31/16 12:02	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-22 (8-10)**

**Lab Sample ID: 480-100681-11**

**Date Collected: 05/24/16 12:40**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 81.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
2-Methylphenol	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
4-Methylphenol	ND		390	24	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Acenaphthene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Acenaphthylene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Acetophenone	ND	*	200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Anthracene	ND		200	50	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Atrazine	ND		200	70	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Benzaldehyde	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Benzo[a]pyrene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Caprolactam	ND		200	61	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Carbazole	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Chrysene	ND		200	45	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Dibenzofuran	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
<b>Diethyl phthalate</b>	<b>40</b>	<b>J</b>	200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-22 (8-10)**

**Lab Sample ID: 480-100681-11**

**Date Collected: 05/24/16 12:40**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 81.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Fluorene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Hexachloroethane	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Isophorone	ND		200	43	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Naphthalene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Nitrobenzene	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Phenanthrene	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Phenol	ND		200	31	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Pyrene	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	73		34 - 132				05/26/16 07:38	05/27/16 18:41	1
Phenol-d5 (Surr)	70		11 - 120				05/26/16 07:38	05/27/16 18:41	1
p-Terphenyl-d14 (Surr)	80		65 - 153				05/26/16 07:38	05/27/16 18:41	1
2,4,6-Tribromophenol (Surr)	90		39 - 146				05/26/16 07:38	05/27/16 18:41	1
2-Fluorobiphenyl	76		37 - 120				05/26/16 07:38	05/27/16 18:41	1
2-Fluorophenol (Surr)	68		18 - 120				05/26/16 07:38	05/27/16 18:41	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	*	210	31	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
2,4,5-Trichlorophenol	ND		210	56	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
2,4,6-Trichlorophenol	ND		210	42	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
2,4-Dimethylphenol	ND		210	50	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
2,4-Dinitrophenol	ND		2000	960	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
2-Chlorophenol	ND		210	38	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
2-Methylphenol	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
2-Methylnaphthalene	ND		210	42	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
2-Nitroaniline	ND		400	31	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
2-Nitrophenol	ND		210	59	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
3,3'-Dichlorobenzidine	ND		400	250	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
3-Nitroaniline	ND	*	400	58	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
4,6-Dinitro-2-methylphenol	ND		400	210	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
4-Bromophenyl phenyl ether	ND		210	29	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
4-Chloro-3-methylphenol	ND		210	52	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
4-Chloroaniline	ND	*	210	52	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
4-Methylphenol	ND		400	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-22 (8-10)**

**Lab Sample ID: 480-100681-11**

**Date Collected: 05/24/16 12:40**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 81.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		400	110	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
4-Nitrophenol	ND		400	150	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Acenaphthene	ND		210	31	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Acenaphthylene	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Acetophenone	ND		210	28	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Anthracene	ND		210	52	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Atrazine	ND		210	72	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Benzaldehyde	ND		210	170	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Benzo[a]pyrene	ND		210	31	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Benzo[b]fluoranthene	ND		210	33	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Benzo[g,h,i]perylene	ND		210	22	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Benzo[k]fluoranthene	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Bis(2-ethylhexyl) phthalate	ND		210	71	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Caprolactam	ND		210	63	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Carbazole	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Chrysene	ND		210	47	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Di-n-octyl phthalate	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Dibenzofuran	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Dimethyl phthalate	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Fluoranthene	ND		210	22	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Fluorene	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Hexachloroethane	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Isophorone	ND		210	44	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Naphthalene	ND		210	27	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Nitrobenzene	ND		210	23	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Pentachlorophenol	ND		400	210	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Phenanthrene	ND		210	31	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Phenol	ND		210	32	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Pyrene	ND		210	25	ug/Kg	☼	06/01/16 07:31	06/02/16 00:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	68		34 - 132				06/01/16 07:31	06/02/16 00:59	1
Phenol-d5 (Surr)	60		11 - 120				06/01/16 07:31	06/02/16 00:59	1
p-Terphenyl-d14 (Surr)	77		65 - 153				06/01/16 07:31	06/02/16 00:59	1
2,4,6-Tribromophenol (Surr)	89		39 - 146				06/01/16 07:31	06/02/16 00:59	1
2-Fluorobiphenyl	73		37 - 120				06/01/16 07:31	06/02/16 00:59	1
2-Fluorophenol (Surr)	61		18 - 120				06/01/16 07:31	06/02/16 00:59	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	☼	05/26/16 12:03	05/27/16 01:32	1
PCB-1221	ND		0.25	0.049	mg/Kg	☼	05/26/16 12:03	05/27/16 01:32	1
PCB-1232	ND		0.25	0.049	mg/Kg	☼	05/26/16 12:03	05/27/16 01:32	1
PCB-1242	ND		0.25	0.049	mg/Kg	☼	05/26/16 12:03	05/27/16 01:32	1
PCB-1248	ND		0.25	0.049	mg/Kg	☼	05/26/16 12:03	05/27/16 01:32	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	05/26/16 12:03	05/27/16 01:32	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	05/26/16 12:03	05/27/16 01:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	111		60 - 154				05/26/16 12:03	05/27/16 01:32	1
Tetrachloro-m-xylene	97		60 - 154				05/26/16 12:03	05/27/16 01:32	1
DCB Decachlorobiphenyl	126		65 - 174				05/26/16 12:03	05/27/16 01:32	1
DCB Decachlorobiphenyl	110		65 - 174				05/26/16 12:03	05/27/16 01:32	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>11300</b>	<b>B</b>	13.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
Antimony	ND		19.8		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
Arsenic	ND		2.6		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
<b>Barium</b>	<b>51.7</b>		0.66		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
<b>Beryllium</b>	<b>0.43</b>		0.26		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
Cadmium	ND		0.26		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
<b>Calcium</b>	<b>64300</b>	<b>B</b>	66.0		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
<b>Chromium</b>	<b>14.0</b>		0.66		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
<b>Cobalt</b>	<b>6.0</b>		0.66		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
<b>Copper</b>	<b>12.2</b>		1.3		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
<b>Iron</b>	<b>13400</b>	<b>B</b>	13.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
<b>Lead</b>	<b>15.2</b>		1.3		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
<b>Magnesium</b>	<b>28900</b>	<b>B</b>	26.4		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
<b>Manganese</b>	<b>386</b>	<b>B</b>	0.26		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
<b>Nickel</b>	<b>13.8</b>		6.6		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
<b>Potassium</b>	<b>4120</b>		39.6		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
Selenium	ND		5.3		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
Silver	ND		0.79		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
<b>Sodium</b>	<b>447</b>		185		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
Thallium	ND		7.9		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
<b>Vanadium</b>	<b>23.0</b>		0.66		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1
<b>Zinc</b>	<b>59.7</b>		2.6		mg/Kg	☼	05/31/16 10:33	05/31/16 13:21	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.024		mg/Kg	☼	05/26/16 07:00	05/27/16 10:34	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.2		mg/Kg	☼	05/30/16 13:50	05/31/16 12:06	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-23 (2-4)**

**Lab Sample ID: 480-100681-12**

**Date Collected: 05/24/16 14:30**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 86.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	28	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
2,4,6-Trichlorophenol	ND		190	39	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
2,4-Dimethylphenol	ND		190	47	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
2,4-Dinitrophenol	ND		1900	890	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
2,4-Dinitrotoluene	ND		190	40	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
2-Methylphenol	ND		190	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
2-Methylnaphthalene	ND		190	39	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
2-Nitroaniline	ND		380	28	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
2-Nitrophenol	ND		190	55	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
4,6-Dinitro-2-methylphenol	ND		380	190	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
4-Chloro-3-methylphenol	ND		190	48	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
4-Chloroaniline	ND		190	48	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
4-Methylphenol	ND		380	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Acenaphthene	ND		190	28	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Acenaphthylene	ND		190	25	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Acetophenone	ND	*	190	26	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Anthracene	ND		190	48	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Atrazine	ND		190	67	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Benzaldehyde	ND		190	150	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Benzo[b]fluoranthene	ND		190	31	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Bis(2-ethylhexyl) phthalate	ND		190	66	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Caprolactam	ND		190	58	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Carbazole	ND		190	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Chrysene	ND		190	43	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Dibenzofuran	ND		190	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-23 (2-4)**

**Lab Sample ID: 480-100681-12**

**Date Collected: 05/24/16 14:30**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 86.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		190	20	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Fluorene	ND		190	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Hexachloroethane	ND		190	25	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Isophorone	ND		190	41	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Naphthalene	ND		190	25	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Nitrobenzene	ND		190	22	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Pentachlorophenol	ND		380	190	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Phenanthrene	ND		190	28	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Phenol	ND		190	30	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Pyrene	ND		190	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	70		34 - 132				05/26/16 07:38	05/27/16 19:08	1
Phenol-d5 (Surr)	65		11 - 120				05/26/16 07:38	05/27/16 19:08	1
p-Terphenyl-d14 (Surr)	80		65 - 153				05/26/16 07:38	05/27/16 19:08	1
2,4,6-Tribromophenol (Surr)	85		39 - 146				05/26/16 07:38	05/27/16 19:08	1
2-Fluorobiphenyl	73		37 - 120				05/26/16 07:38	05/27/16 19:08	1
2-Fluorophenol (Surr)	66		18 - 120				05/26/16 07:38	05/27/16 19:08	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	*	200	29	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
2,4-Dinitrophenol	ND		1900	910	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
2,4-Dinitrotoluene	ND		200	40	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
2-Methylphenol	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
2-Nitrophenol	ND		200	55	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
3-Nitroaniline	ND	*	380	54	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
4-Chloroaniline	ND	*	200	49	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
4-Methylphenol	ND		380	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-23 (2-4)**

**Lab Sample ID: 480-100681-12**

**Date Collected: 05/24/16 14:30**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 86.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		380	100	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Acenaphthene	ND		200	29	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Acenaphthylene	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Acetophenone	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Anthracene	ND		200	49	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Atrazine	ND		200	68	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Benzaldehyde	ND		200	160	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Benzo[k]fluoranthene	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Caprolactam	ND		200	59	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Carbazole	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Chrysene	ND		200	44	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Di-n-butyl phthalate	ND		200	33	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Dibenzofuran	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Fluoranthene	ND		200	21	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Fluorene	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Hexachloroethane	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Isophorone	ND		200	42	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
N-Nitrosodi-n-propylamine	ND		200	33	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Naphthalene	ND		200	25	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Nitrobenzene	ND		200	22	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Phenanthrene	ND		200	29	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Phenol	ND		200	30	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1
Pyrene	ND		200	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	66		34 - 132	06/01/16 07:31	06/02/16 01:26	1
Phenol-d5 (Surr)	63		11 - 120	06/01/16 07:31	06/02/16 01:26	1
p-Terphenyl-d14 (Surr)	74		65 - 153	06/01/16 07:31	06/02/16 01:26	1
2,4,6-Tribromophenol (Surr)	91		39 - 146	06/01/16 07:31	06/02/16 01:26	1
2-Fluorobiphenyl	73		37 - 120	06/01/16 07:31	06/02/16 01:26	1
2-Fluorophenol (Surr)	61		18 - 120	06/01/16 07:31	06/02/16 01:26	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.044	mg/Kg	☼	05/26/16 12:03	05/27/16 01:48	1
PCB-1221	ND		0.23	0.044	mg/Kg	☼	05/26/16 12:03	05/27/16 01:48	1
PCB-1232	ND		0.23	0.044	mg/Kg	☼	05/26/16 12:03	05/27/16 01:48	1
PCB-1242	ND		0.23	0.044	mg/Kg	☼	05/26/16 12:03	05/27/16 01:48	1
PCB-1248	ND		0.23	0.044	mg/Kg	☼	05/26/16 12:03	05/27/16 01:48	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	05/26/16 12:03	05/27/16 01:48	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	05/26/16 12:03	05/27/16 01:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	112		60 - 154				05/26/16 12:03	05/27/16 01:48	1
Tetrachloro-m-xylene	108		60 - 154				05/26/16 12:03	05/27/16 01:48	1
DCB Decachlorobiphenyl	128		65 - 174				05/26/16 12:03	05/27/16 01:48	1
DCB Decachlorobiphenyl	118		65 - 174				05/26/16 12:03	05/27/16 01:48	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>3690</b>	<b>B</b>	11.8		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
Antimony	ND		17.7		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
Arsenic	ND		2.4		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
<b>Barium</b>	<b>19.1</b>		0.59		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
Beryllium	ND		0.24		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
Cadmium	ND		0.24		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
<b>Calcium</b>	<b>54100</b>	<b>B</b>	59.1		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
<b>Chromium</b>	<b>6.1</b>		0.59		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
<b>Cobalt</b>	<b>2.3</b>		0.59		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
<b>Copper</b>	<b>5.3</b>		1.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
<b>Iron</b>	<b>6780</b>	<b>B</b>	11.8		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
<b>Lead</b>	<b>9.7</b>		1.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
<b>Magnesium</b>	<b>26700</b>	<b>B</b>	23.6		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
<b>Manganese</b>	<b>278</b>	<b>B</b>	0.24		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
Nickel	ND		5.9		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
<b>Potassium</b>	<b>1310</b>		35.4		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
Selenium	ND		4.7		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
Silver	ND		0.71		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
<b>Sodium</b>	<b>212</b>		165		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
Thallium	ND		7.1		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
<b>Vanadium</b>	<b>12.4</b>		0.59		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1
<b>Zinc</b>	<b>64.6</b>		2.4		mg/Kg	☼	05/31/16 10:33	05/31/16 13:24	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.022		mg/Kg	☼	05/26/16 07:00	05/27/16 10:36	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1		mg/Kg	☼	05/30/16 13:50	05/31/16 12:08	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-24 (4-6)**

**Lab Sample ID: 480-100681-13**

**Date Collected: 05/24/16 15:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 85.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
2,4-Dinitrotoluene	ND		200	40	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
2-Methylphenol	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
2-Nitrophenol	ND		200	55	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
4-Chloro-3-methylphenol	ND		200	48	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
4-Chloroaniline	ND		200	48	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
4-Methylphenol	ND		380	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Acenaphthene	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Acenaphthylene	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Acetophenone	ND	*	200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Anthracene	ND		200	48	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Atrazine	ND		200	68	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Benzaldehyde	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
<b>Benzo[a]anthracene</b>	<b>77</b>	<b>J</b>	200	20	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
<b>Benzo[a]pyrene</b>	<b>69</b>	<b>J</b>	200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
<b>Benzo[b]fluoranthene</b>	<b>82</b>	<b>J</b>	200	31	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
<b>Benzo[g,h,i]perylene</b>	<b>47</b>	<b>J</b>	200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
<b>Benzo[k]fluoranthene</b>	<b>37</b>	<b>J</b>	200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Bis(2-chloroethoxy)methane	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Caprolactam	ND		200	59	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Carbazole	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
<b>Chrysene</b>	<b>70</b>	<b>J</b>	200	44	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Dibenz(a,h)anthracene	ND		200	34	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Di-n-butyl phthalate	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Dibenzofuran	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1

TestAmerica Buffalo

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**Lab Sample ID: 480-100681-13**

**Date Collected: 05/24/16 15:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 85.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Fluoranthene</b>	<b>190</b>	<b>J</b>	200	21	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Fluorene	ND		200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Hexachlorobenzene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Hexachlorocyclopentadiene	ND		200	26	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Hexachloroethane	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>41</b>	<b>J</b>	200	24	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Isophorone	ND		200	41	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
N-Nitrosodi-n-propylamine	ND		200	33	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Naphthalene	ND		200	25	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Nitrobenzene	ND		200	22	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
<b>Phenanthrene</b>	<b>130</b>	<b>J</b>	200	29	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
Phenol	ND		200	30	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
<b>Pyrene</b>	<b>150</b>	<b>J</b>	200	23	ug/Kg	☼	05/26/16 07:38	05/27/16 19:35	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Nitrobenzene-d5 (Surr)</i>	72		34 - 132				05/26/16 07:38	05/27/16 19:35	1
<i>Phenol-d5 (Surr)</i>	67		11 - 120				05/26/16 07:38	05/27/16 19:35	1
<i>p-Terphenyl-d14 (Surr)</i>	77		65 - 153				05/26/16 07:38	05/27/16 19:35	1
<i>2,4,6-Tribromophenol (Surr)</i>	90		39 - 146				05/26/16 07:38	05/27/16 19:35	1
<i>2-Fluorobiphenyl</i>	73		37 - 120				05/26/16 07:38	05/27/16 19:35	1
<i>2-Fluorophenol (Surr)</i>	69		18 - 120				05/26/16 07:38	05/27/16 19:35	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	*	190	29	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
2,4,5-Trichlorophenol	ND		190	53	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
2,4,6-Trichlorophenol	ND		190	39	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
2,4-Dichlorophenol	ND		190	21	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
2,4-Dimethylphenol	ND		190	47	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
2,4-Dinitrotoluene	ND		190	40	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
2-Methylphenol	ND		190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
2-Methylnaphthalene	ND		190	39	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
2-Nitrophenol	ND		190	55	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
3-Nitroaniline	ND	*	380	54	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
4,6-Dinitro-2-methylphenol	ND		380	190	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
4-Chloro-3-methylphenol	ND		190	48	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
4-Chloroaniline	ND	*	190	48	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
4-Methylphenol	ND		380	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1

TestAmerica Buffalo

# Client Sample Results

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 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-24 (4-6)**

**Lab Sample ID: 480-100681-13**

Date Collected: 05/24/16 15:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 85.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		380	100	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
<b>Acenaphthene</b>	<b>32</b>	<b>J</b>	190	29	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Acenaphthylene	ND		190	25	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Acetophenone	ND		190	26	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
<b>Anthracene</b>	<b>110</b>	<b>J</b>	190	48	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Atrazine	ND		190	67	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Benzaldehyde	ND		190	150	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
<b>Benzo[a]anthracene</b>	<b>180</b>	<b>J</b>	190	19	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
<b>Benzo[a]pyrene</b>	<b>160</b>	<b>J</b>	190	29	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
<b>Benzo[b]fluoranthene</b>	<b>180</b>	<b>J</b>	190	31	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
<b>Benzo[g,h,i]perylene</b>	<b>100</b>	<b>J</b>	190	21	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
<b>Benzo[k]fluoranthene</b>	<b>87</b>	<b>J</b>	190	25	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Bis(2-ethylhexyl) phthalate	ND		190	66	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Caprolactam	ND		190	58	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
<b>Carbazole</b>	<b>26</b>	<b>J</b>	190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
<b>Chrysene</b>	<b>160</b>	<b>J</b>	190	43	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
<b>Dibenzofuran</b>	<b>32</b>	<b>J</b>	190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
<b>Fluoranthene</b>	<b>390</b>		190	21	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
<b>Fluorene</b>	<b>46</b>	<b>J</b>	190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Hexachlorobutadiene	ND		190	29	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Hexachloroethane	ND		190	25	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>89</b>	<b>J</b>	190	24	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Isophorone	ND		190	41	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Naphthalene	ND		190	25	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Nitrobenzene	ND		190	22	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Pentachlorophenol	ND		380	190	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
<b>Phenanthrene</b>	<b>330</b>		190	29	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Phenol	ND		190	30	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
<b>Pyrene</b>	<b>320</b>		190	23	ug/Kg	☼	06/01/16 07:31	06/02/16 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	67		34 - 132				06/01/16 07:31	06/02/16 01:52	1
Phenol-d5 (Surr)	62		11 - 120				06/01/16 07:31	06/02/16 01:52	1
p-Terphenyl-d14 (Surr)	73		65 - 153				06/01/16 07:31	06/02/16 01:52	1
2,4,6-Tribromophenol (Surr)	60		39 - 146				06/01/16 07:31	06/02/16 01:52	1
2-Fluorobiphenyl	70		37 - 120				06/01/16 07:31	06/02/16 01:52	1
2-Fluorophenol (Surr)	60		18 - 120				06/01/16 07:31	06/02/16 01:52	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
4,4'-DDE	ND		1.9	0.40	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
4,4'-DDT	ND		1.9	0.45	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
Aldrin	ND		1.9	0.47	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
alpha-BHC	ND		1.9	0.34	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
alpha-Chlordane	ND		1.9	0.95	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
beta-BHC	ND		1.9	0.34	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
delta-BHC	ND		1.9	0.35	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
Dieldrin	ND		1.9	0.46	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
Endosulfan I	ND		1.9	0.37	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
Endosulfan II	ND		1.9	0.34	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
Endrin	ND		1.9	0.38	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
Endrin aldehyde	ND		1.9	0.49	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
Endrin ketone	ND		1.9	0.47	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
gamma-Chlordane	ND		1.9	0.61	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
Heptachlor	ND		1.9	0.41	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
Methoxychlor	ND		1.9	0.39	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
Toxaphene	ND		19	11	ug/Kg	☼	06/02/16 07:25	06/03/16 12:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	55		32 - 136				06/02/16 07:25	06/03/16 12:45	1
DCB Decachlorobiphenyl	115		32 - 136				06/02/16 07:25	06/03/16 12:45	1
Tetrachloro-m-xylene	55		30 - 124				06/02/16 07:25	06/03/16 12:45	1
Tetrachloro-m-xylene	61		30 - 124				06/02/16 07:25	06/03/16 12:45	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	05/26/16 12:03	05/27/16 02:04	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	05/26/16 12:03	05/27/16 02:04	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	05/26/16 12:03	05/27/16 02:04	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	05/26/16 12:03	05/27/16 02:04	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	05/26/16 12:03	05/27/16 02:04	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	05/26/16 12:03	05/27/16 02:04	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	05/26/16 12:03	05/27/16 02:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	112		60 - 154				05/26/16 12:03	05/27/16 02:04	1
Tetrachloro-m-xylene	99		60 - 154				05/26/16 12:03	05/27/16 02:04	1
DCB Decachlorobiphenyl	125		65 - 174				05/26/16 12:03	05/27/16 02:04	1
DCB Decachlorobiphenyl	109		65 - 174				05/26/16 12:03	05/27/16 02:04	1

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		19	6.1	ug/Kg	☼	05/26/16 11:30	05/31/16 18:51	1
Silvex (2,4,5-TP)	ND		19	6.8	ug/Kg	☼	05/26/16 11:30	05/31/16 18:51	1
2,4-D	ND		19	12	ug/Kg	☼	05/26/16 11:30	05/31/16 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	124		28 - 129				05/26/16 11:30	05/31/16 18:51	1
2,4-Dichlorophenylacetic acid	139	X	28 - 129				05/26/16 11:30	05/31/16 18:51	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-24 (4-6)**

**Lab Sample ID: 480-100681-13**

Date Collected: 05/24/16 15:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 85.0

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13500	B	11.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Antimony	ND		16.8		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Arsenic	ND		2.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Barium	49.1		0.56		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Beryllium	0.57		0.22		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Cadmium	ND		0.22		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Calcium	38500	B	56.1		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Chromium	18.5		0.56		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Cobalt	8.5		0.56		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Copper	17.7		1.1		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Iron	17600	B	11.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Lead	13.5		1.1		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Magnesium	18900	B	22.4		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Manganese	291	B	0.22		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Nickel	20.8		5.6		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Potassium	4360		33.6		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Selenium	ND		4.5		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Silver	ND		0.67		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Sodium	199		157		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Thallium	ND		6.7		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Vanadium	28.8		0.56		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1
Zinc	132		2.2		mg/Kg	☼	05/31/16 10:33	05/31/16 13:38	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021		mg/Kg	☼	05/26/16 07:00	05/27/16 10:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1		mg/Kg	☼	05/30/16 13:50	05/31/16 12:11	1



# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-100681-6	RI SB-18 (2-4)	110	114	110	103
480-100681-7	RI SB-19 (2-4)	104	110	109	105
480-100681-8	BLIND DUP	109	115	108	104
LCS 480-303699/1-A	Lab Control Sample	103	118	110	104
MB 480-303699/2-A	Method Blank	107	115	112	103

#### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane (Surr)  
 TOL = Toluene-d8 (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (34-132)	PHL (11-120)	TPH (65-153)	TBP (39-146)	FBP (37-120)	2FP (18-120)
480-100681-1	RI SB-12 (2-4)	74	68	77	93	75	67
480-100681-1 - RE	RI SB-12 (2-4)	55	52	68	84	63	49
480-100681-2	RI SB-13 (1-3)	71	65	77	68	72	63
480-100681-2 - RE	RI SB-13 (1-3)	68	63	74	72	72	61
480-100681-3	RI SB-15 (6-8)	77	71	84	93	81	71
480-100681-3 - RE	RI SB-15 (6-8)	73	66	76	93	73	66
480-100681-4	RI MW-2 (8-10)	69	68	77	89	72	65
480-100681-4 - RE	RI MW-2 (8-10)	73	66	75	91	74	64
480-100681-5	RI SB-17 (4-6)	70	65	79	87	69	64
480-100681-5 - RE	RI SB-17 (4-6)	68	63	76	87	71	63
480-100681-5 MS - RE	RI SB-17 (4-6)	68	65	74	92	74	62
480-100681-5 MS	RI SB-17 (4-6)	47	43	60 X	76	52	39
480-100681-5 MSD - RE	RI SB-17 (4-6)	68	61	74	92	71	59
480-100681-5 MSD	RI SB-17 (4-6)	48	42	55 X	74	50	40
480-100681-6	RI SB-18 (2-4)	66	63	80	86	68	61
480-100681-6 - RE	RI SB-18 (2-4)	72	62	80	92	74	63
480-100681-7	RI SB-19 (2-4)	68	65	79	89	72	64
480-100681-7 - RE	RI SB-19 (2-4)	72	65	74	88	75	63
480-100681-8	BLIND DUP	71	69	76	84	72	67
480-100681-8 - RE	BLIND DUP	70	64	75	90	74	65
480-100681-9	RI SB-20 (4-6)	58	56	76	84	64	53
480-100681-9 - RE	RI SB-20 (4-6)	63	59	73	85	69	58
480-100681-10	RI SB-21 (6-8)	69	66	78	84	71	65
480-100681-10 - RE	RI SB-21 (6-8)	69	61	74	87	73	61
480-100681-11	RI SB-22 (8-10)	73	70	80	90	76	68
480-100681-11 - RE	RI SB-22 (8-10)	68	60	77	89	73	61
480-100681-12	RI SB-23 (2-4)	70	65	80	85	73	66
480-100681-12 - RE	RI SB-23 (2-4)	66	63	74	91	73	61
480-100681-13	RI SB-24 (4-6)	72	67	77	90	73	69
480-100681-13 - RE	RI SB-24 (4-6)	67	62	73	60	70	60
LCS 480-303732/2-A	Lab Control Sample	67	60	83	95	73	57

TestAmerica Buffalo

# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (34-132)	PHL (11-120)	TPH (65-153)	TBP (39-146)	FBP (37-120)	2FP (18-120)
LCS 480-304485/2-A	Lab Control Sample	69	63	75	94	73	62
MB 480-303732/1-A	Method Blank	68	66	83	85	73	63
MB 480-304485/1-A	Method Blank	71	67	78	91	76	64

### Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)  
 PHL = Phenol-d5 (Surr)  
 TPH = p-Terphenyl-d14 (Surr)  
 TBP = 2,4,6-Tribromophenol (Surr)  
 FBP = 2-Fluorobiphenyl  
 2FP = 2-Fluorophenol (Surr)

## Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCB1 (32-136)	DCB2 (32-136)	TCX1 (30-124)	TCX2 (30-124)
480-100681-1	RI SB-12 (2-4)	54	31 X	59	61
480-100681-4	RI MW-2 (8-10)	51	70	51	60
480-100681-5	RI SB-17 (4-6)	56	70	50	58
480-100681-5 MS	RI SB-17 (4-6)	63	73	55	82
480-100681-5 MSD	RI SB-17 (4-6)	59	70	52	58
480-100681-7	RI SB-19 (2-4)	53	74	54	62
480-100681-8	BLIND DUP	50	73	49	59
480-100681-13	RI SB-24 (4-6)	55	115	55	61
LCS 480-304674/2-A	Lab Control Sample	62	74	55	88
MB 480-304674/1-A	Method Blank	62	73	59	57

### Surrogate Legend

DCB = DCB Decachlorobiphenyl  
 TCX = Tetrachloro-m-xylene

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (60-154)	TCX2 (60-154)	DCB1 (65-174)	DCB2 (65-174)
480-100681-1	RI SB-12 (2-4)	112	99	125	111
480-100681-2	RI SB-13 (1-3)	163 X	160 X	179 X	167
480-100681-3	RI SB-15 (6-8)	108	95	119	105
480-100681-4	RI MW-2 (8-10)	111	99	126	109
480-100681-5	RI SB-17 (4-6)	112	101	124	111
480-100681-5 MS	RI SB-17 (4-6)	129	120	140	124
480-100681-5 MSD	RI SB-17 (4-6)	120	113	131	120
480-100681-6	RI SB-18 (2-4)	121	102	134	113
480-100681-7	RI SB-19 (2-4)	110	100	122	110
480-100681-8	BLIND DUP	117	106	131	115
480-100681-9	RI SB-20 (4-6)	106	96	119	106

TestAmerica Buffalo

## Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (60-154)	TCX2 (60-154)	DCB1 (65-174)	DCB2 (65-174)
480-100681-10	RI SB-21 (6-8)	116	100	130	107
480-100681-11	RI SB-22 (8-10)	111	97	126	110
480-100681-12	RI SB-23 (2-4)	112	108	128	118
480-100681-13	RI SB-24 (4-6)	112	99	125	109
LCS 480-303838/2-A	Lab Control Sample	131	113	138	118
MB 480-303838/1-A	Method Blank	116	104	125	108

**Surrogate Legend**

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

### Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1 (28-129)	DCPA2 (28-129)
480-100681-1	RI SB-12 (2-4)	82	79
480-100681-4	RI MW-2 (8-10)	69	83
480-100681-5	RI SB-17 (4-6)	82	85
480-100681-5 MS	RI SB-17 (4-6)	99	97
480-100681-5 MSD	RI SB-17 (4-6)	82	87
480-100681-7	RI SB-19 (2-4)	83	76
480-100681-8	BLIND DUP	74	93
480-100681-13	RI SB-24 (4-6)	124	139 X
LCS 480-303825/2-A	Lab Control Sample	95	95
MB 480-303825/1-A	Method Blank	78	93

**Surrogate Legend**

DCPA = 2,4-Dichlorophenylacetic acid

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 480-303699/2-A**

**Matrix: Solid**

**Analysis Batch: 303681**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303699**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.35	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.79	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,1,2-Trichloroethane	ND		4.9	0.63	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,1-Dichloroethane	ND		4.9	0.60	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.4	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,2-Dichlorobenzene	ND		4.9	0.38	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,2-Dichloroethane	ND		4.9	0.25	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,2-Dichloropropane	ND		4.9	2.4	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,4-Dichlorobenzene	ND		4.9	0.68	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
2-Butanone (MEK)	ND		24	1.8	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
2-Hexanone	ND		24	2.4	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
4-Methyl-2-pentanone (MIBK)	ND		24	1.6	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Acetone	16.1	J	24	4.1	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Benzene	ND		4.9	0.24	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Bromodichloromethane	ND		4.9	0.65	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Bromoform	ND		4.9	2.4	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Bromomethane	ND		4.9	0.44	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Carbon disulfide	ND		4.9	2.4	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Carbon tetrachloride	ND		4.9	0.47	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Chlorobenzene	ND		4.9	0.64	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Chloroethane	ND		4.9	1.1	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Chloroform	ND		4.9	0.30	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Chloromethane	ND		4.9	0.29	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
cis-1,2-Dichloroethene	ND		4.9	0.63	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
cis-1,3-Dichloropropene	ND		4.9	0.70	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Cyclohexane	ND		4.9	0.68	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Dibromochloromethane	ND		4.9	0.63	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Dichlorodifluoromethane	ND		4.9	0.40	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Ethylbenzene	ND		4.9	0.34	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Isopropylbenzene	ND		4.9	0.74	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Methyl acetate	ND		4.9	2.9	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Methyl tert-butyl ether	ND		4.9	0.48	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Methylcyclohexane	ND		4.9	0.74	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Methylene Chloride	5.93		4.9	2.2	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Styrene	ND		4.9	0.24	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Tetrachloroethene	ND		4.9	0.66	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Toluene	ND		4.9	0.37	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
trans-1,2-Dichloroethene	ND		4.9	0.50	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
trans-1,3-Dichloropropene	ND		4.9	2.1	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Trichloroethene	ND		4.9	1.1	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Trichlorofluoromethane	ND		4.9	0.46	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Vinyl chloride	ND		4.9	0.60	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Xylenes, Total	ND		9.8	0.82	ug/Kg		05/25/16 20:39	05/26/16 00:41	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	05/25/16 20:39	05/26/16 00:41	1
4-Bromofluorobenzene (Surr)	115		72 - 126	05/25/16 20:39	05/26/16 00:41	1
Dibromofluoromethane (Surr)	112		60 - 140	05/25/16 20:39	05/26/16 00:41	1
Toluene-d8 (Surr)	103		71 - 125	05/25/16 20:39	05/26/16 00:41	1

Lab Sample ID: LCS 480-303699/1-A

Matrix: Solid

Analysis Batch: 303681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 303699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
1,1,1-Trichloroethane	46.7	48.6		ug/Kg		104	77 - 121	
1,1,2,2-Tetrachloroethane	46.7	43.5		ug/Kg		93	80 - 120	
1,1,2-Trichloro-1,2,2-trifluoroethane	46.7	45.7		ug/Kg		98	60 - 140	
1,1,2-Trichloroethane	46.7	45.1		ug/Kg		96	78 - 122	
1,1-Dichloroethane	46.7	44.2		ug/Kg		95	73 - 126	
1,1-Dichloroethene	46.7	43.2		ug/Kg		92	59 - 125	
1,2,4-Trichlorobenzene	46.7	45.7		ug/Kg		98	64 - 120	
1,2-Dibromo-3-Chloropropane	46.7	45.8		ug/Kg		98	63 - 124	
1,2-Dibromoethane	46.7	47.4		ug/Kg		101	78 - 120	
1,2-Dichlorobenzene	46.7	44.7		ug/Kg		96	75 - 120	
1,2-Dichloroethane	46.7	45.8		ug/Kg		98	77 - 122	
1,2-Dichloropropane	46.7	43.1		ug/Kg		92	75 - 124	
1,3-Dichlorobenzene	46.7	44.8		ug/Kg		96	74 - 120	
1,4-Dichlorobenzene	46.7	44.2		ug/Kg		95	73 - 120	
2-Butanone (MEK)	234	254		ug/Kg		109	70 - 134	
2-Hexanone	234	237		ug/Kg		101	59 - 130	
4-Methyl-2-pentanone (MIBK)	234	219		ug/Kg		94	65 - 133	
Acetone	234	282		ug/Kg		121	61 - 137	
Benzene	46.7	44.3		ug/Kg		95	79 - 127	
Bromodichloromethane	46.7	48.1		ug/Kg		103	80 - 122	
Bromoform	46.7	46.9		ug/Kg		100	68 - 126	
Bromomethane	46.7	61.9		ug/Kg		132	37 - 149	
Carbon disulfide	46.7	43.9		ug/Kg		94	64 - 131	
Carbon tetrachloride	46.7	51.0		ug/Kg		109	75 - 135	
Chlorobenzene	46.7	45.3		ug/Kg		97	76 - 124	
Chloroethane	46.7	57.5		ug/Kg		123	69 - 135	
Chloroform	46.7	45.2		ug/Kg		97	80 - 118	
Chloromethane	46.7	48.2		ug/Kg		103	63 - 127	
cis-1,2-Dichloroethene	46.7	46.2		ug/Kg		99	81 - 117	
cis-1,3-Dichloropropene	46.7	47.5		ug/Kg		102	82 - 120	
Cyclohexane	46.7	42.4		ug/Kg		91	65 - 106	
Dibromochloromethane	46.7	50.8		ug/Kg		109	76 - 125	
Dichlorodifluoromethane	46.7	46.4		ug/Kg		99	57 - 142	
Ethylbenzene	46.7	45.1		ug/Kg		97	80 - 120	
Isopropylbenzene	46.7	43.6		ug/Kg		93	72 - 120	
Methyl acetate	234	222		ug/Kg		95	55 - 136	
Methyl tert-butyl ether	46.7	46.9		ug/Kg		100	63 - 125	
Methylcyclohexane	46.7	44.8		ug/Kg		96	60 - 140	
Methylene Chloride	46.7	51.2		ug/Kg		110	61 - 127	
Styrene	46.7	45.2		ug/Kg		97	80 - 120	
Tetrachloroethene	46.7	47.0		ug/Kg		101	74 - 122	
Toluene	46.7	41.6		ug/Kg		89	74 - 128	
trans-1,2-Dichloroethene	46.7	45.8		ug/Kg		98	78 - 126	

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-303699/1-A**

**Matrix: Solid**

**Analysis Batch: 303681**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303699**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	46.7	47.8		ug/Kg		102	73 - 123
Trichloroethene	46.7	45.1		ug/Kg		96	77 - 129
Trichlorofluoromethane	46.7	54.5		ug/Kg		117	65 - 146
Vinyl chloride	46.7	54.8		ug/Kg		117	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		64 - 126
4-Bromofluorobenzene (Surr)	118		72 - 126
Dibromofluoromethane (Surr)	110		60 - 140
Toluene-d8 (Surr)	104		71 - 125

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 480-303732/1-A**

**Matrix: Solid**

**Analysis Batch: 303993**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303732**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
2-Chloronaphthalene	ND		170	28	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
2-Chlorophenol	ND		170	31	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
2-Methylphenol	ND		170	20	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
2-Methylnaphthalene	ND		170	34	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
2-Nitroaniline	ND		330	25	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
2-Nitrophenol	ND		170	48	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
3-Nitroaniline	ND		330	47	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
4-Chloroaniline	ND		170	42	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
4-Methylphenol	ND		330	20	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
4-Nitroaniline	ND		330	89	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
4-Nitrophenol	ND		330	120	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Acenaphthene	ND		170	25	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Acenaphthylene	ND		170	22	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Acetophenone	ND		170	23	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Anthracene	ND		170	42	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Atrazine	ND		170	59	ug/Kg		05/26/16 07:38	05/27/16 09:25	1

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-303732/1-A**

**Matrix: Solid**

**Analysis Batch: 303993**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303732**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzaldehyde	ND		170	130	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Benzo[a]anthracene	ND		170	17	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Benzo[a]pyrene	ND		170	25	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Caprolactam	ND		170	51	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Carbazole	ND		170	20	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Chrysene	ND		170	38	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Dibenzofuran	ND		170	20	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Diethyl phthalate	ND		170	22	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Dimethyl phthalate	ND		170	20	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Fluoranthene	ND		170	18	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Fluorene	ND		170	20	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Hexachlorobenzene	ND		170	23	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Hexachlorobutadiene	ND		170	25	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Hexachloroethane	ND		170	22	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Isophorone	ND		170	36	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Naphthalene	ND		170	22	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Nitrobenzene	ND		170	19	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Pentachlorophenol	ND		330	170	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Phenanthrene	ND		170	25	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Phenol	ND		170	26	ug/Kg		05/26/16 07:38	05/27/16 09:25	1
Pyrene	ND		170	20	ug/Kg		05/26/16 07:38	05/27/16 09:25	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5 (Surr)	68		34 - 132	05/26/16 07:38	05/27/16 09:25	1
Phenol-d5 (Surr)	66		11 - 120	05/26/16 07:38	05/27/16 09:25	1
p-Terphenyl-d14 (Surr)	83		65 - 153	05/26/16 07:38	05/27/16 09:25	1
2,4,6-Tribromophenol (Surr)	85		39 - 146	05/26/16 07:38	05/27/16 09:25	1
2-Fluorobiphenyl	73		37 - 120	05/26/16 07:38	05/27/16 09:25	1
2-Fluorophenol (Surr)	63		18 - 120	05/26/16 07:38	05/27/16 09:25	1

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-303732/2-A**

**Matrix: Solid**

**Analysis Batch: 303993**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303732**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1660	1220		ug/Kg		73	71 - 120
bis (2-chloroisopropyl) ether	1660	816		ug/Kg		49	44 - 120
2,4,5-Trichlorophenol	1660	1330		ug/Kg		80	59 - 126
2,4,6-Trichlorophenol	1660	1350		ug/Kg		81	59 - 123
2,4-Dichlorophenol	1660	1220		ug/Kg		74	52 - 120
2,4-Dimethylphenol	1660	1180		ug/Kg		71	36 - 120
2,4-Dinitrophenol	3330	3050		ug/Kg		92	35 - 146
2,4-Dinitrotoluene	1660	1360		ug/Kg		82	55 - 125
2,6-Dinitrotoluene	1660	1320		ug/Kg		79	66 - 128
2-Chloronaphthalene	1660	1190		ug/Kg		71	57 - 120
2-Chlorophenol	1660	1020		ug/Kg		61	38 - 120
2-Methylphenol	1660	1020		ug/Kg		61	48 - 120
2-Methylnaphthalene	1660	1170		ug/Kg		70	47 - 120
2-Nitroaniline	1660	1240		ug/Kg		75	61 - 130
2-Nitrophenol	1660	1180		ug/Kg		71	50 - 120
3,3'-Dichlorobenzidine	3330	2450		ug/Kg		74	48 - 126
3-Nitroaniline	1660	1130		ug/Kg		68	61 - 127
4,6-Dinitro-2-methylphenol	3330	3090		ug/Kg		93	49 - 155
4-Bromophenyl phenyl ether	1660	1410		ug/Kg		85	58 - 131
4-Chloro-3-methylphenol	1660	1280		ug/Kg		77	49 - 125
4-Chloroaniline	1660	916		ug/Kg		55	49 - 120
4-Chlorophenyl phenyl ether	1660	1330		ug/Kg		80	63 - 124
4-Methylphenol	1660	1070		ug/Kg		64	50 - 119
4-Nitroaniline	1660	1210		ug/Kg		72	63 - 128
4-Nitrophenol	3330	3070		ug/Kg		92	43 - 137
Acenaphthene	1660	1220		ug/Kg		73	53 - 120
Acenaphthylene	1660	1250		ug/Kg		75	58 - 121
Acetophenone	1660	1030	*	ug/Kg		62	66 - 120
Anthracene	1660	1390		ug/Kg		83	62 - 129
Atrazine	3330	2770		ug/Kg		83	60 - 164
Benzaldehyde	3330	1560		ug/Kg		47	21 - 120
Benzo[a]anthracene	1660	1340		ug/Kg		81	65 - 133
Benzo[a]pyrene	1660	1410		ug/Kg		85	64 - 127
Benzo[b]fluoranthene	1660	1380		ug/Kg		83	64 - 135
Benzo[g,h,i]perylene	1660	1340		ug/Kg		81	50 - 152
Benzo[k]fluoranthene	1660	1400		ug/Kg		84	58 - 138
Bis(2-chloroethoxy)methane	1660	1050		ug/Kg		63	61 - 133
Bis(2-chloroethyl)ether	1660	901		ug/Kg		54	45 - 120
Bis(2-ethylhexyl) phthalate	1660	1350		ug/Kg		81	61 - 133
Butyl benzyl phthalate	1660	1330		ug/Kg		80	61 - 129
Caprolactam	3330	2330		ug/Kg		70	54 - 133
Carbazole	1660	1360		ug/Kg		82	59 - 129
Chrysene	1660	1360		ug/Kg		82	64 - 131
Dibenz(a,h)anthracene	1660	1350		ug/Kg		81	54 - 148
Di-n-butyl phthalate	1660	1400		ug/Kg		84	58 - 130
Di-n-octyl phthalate	1660	1340		ug/Kg		80	62 - 133
Dibenzofuran	1660	1260		ug/Kg		76	56 - 120
Diethyl phthalate	1660	1360		ug/Kg		82	66 - 126

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-303732/2-A**

**Matrix: Solid**

**Analysis Batch: 303993**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303732**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	1660	1330		ug/Kg		80	65 - 124
Fluoranthene	1660	1430		ug/Kg		86	62 - 131
Fluorene	1660	1300		ug/Kg		78	63 - 126
Hexachlorobenzene	1660	1470		ug/Kg		88	60 - 132
Hexachlorobutadiene	1660	1170		ug/Kg		71	45 - 120
Hexachlorocyclopentadiene	1660	1050		ug/Kg		63	31 - 120
Hexachloroethane	1660	899		ug/Kg		54	41 - 120
Indeno[1,2,3-cd]pyrene	1660	1360		ug/Kg		82	56 - 149
Isophorone	1660	1110		ug/Kg		67	56 - 120
N-Nitrosodi-n-propylamine	1660	1010		ug/Kg		61	46 - 120
Naphthalene	1660	1080		ug/Kg		65	46 - 120
Nitrobenzene	1660	1060		ug/Kg		63	49 - 120
Pentachlorophenol	3330	2900		ug/Kg		87	33 - 136
Phenanthrene	1660	1380		ug/Kg		83	60 - 130
Phenol	1660	983		ug/Kg		59	36 - 120
Pyrene	1660	1420		ug/Kg		86	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	67		34 - 132
Phenol-d5 (Surr)	60		11 - 120
p-Terphenyl-d14 (Surr)	83		65 - 153
2,4,6-Tribromophenol (Surr)	95		39 - 146
2-Fluorobiphenyl	73		37 - 120
2-Fluorophenol (Surr)	57		18 - 120

**Lab Sample ID: 480-100681-5 MS**

**Matrix: Solid**

**Analysis Batch: 304925**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 303732**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	ND	F1	1980	1010	F1	ug/Kg	☼	51	71 - 120
bis (2-chloroisopropyl) ether	ND	F1	1980	635	F1	ug/Kg	☼	32	44 - 120
2,4,5-Trichlorophenol	ND		1980	1200		ug/Kg	☼	61	59 - 126
2,4,6-Trichlorophenol	ND	F1	1980	1250		ug/Kg	☼	63	59 - 123
2,4-Dichlorophenol	ND		1980	1110		ug/Kg	☼	56	52 - 120
2,4-Dimethylphenol	ND		1980	1080		ug/Kg	☼	55	36 - 120
2,4-Dinitrophenol	ND		3960	2670		ug/Kg	☼	67	35 - 146
2,4-Dinitrotoluene	ND		1980	1250		ug/Kg	☼	63	55 - 125
2,6-Dinitrotoluene	ND	F1	1980	1200	F1	ug/Kg	☼	61	66 - 128
2-Chloronaphthalene	ND	F1	1980	1000	F1	ug/Kg	☼	51	57 - 120
2-Chlorophenol	ND		1980	858		ug/Kg	☼	43	38 - 120
2-Methylphenol	ND	F1	1980	882	F1	ug/Kg	☼	45	48 - 120
2-Methylnaphthalene	ND		1980	989		ug/Kg	☼	50	47 - 120
2-Nitroaniline	ND	F1	1980	1160	F1	ug/Kg	☼	59	61 - 130
2-Nitrophenol	ND		1980	1020		ug/Kg	☼	52	50 - 120
3,3'-Dichlorobenzidine	ND		3960	2310		ug/Kg	☼	58	48 - 126
3-Nitroaniline	ND	F1	1980	1070	F1	ug/Kg	☼	54	61 - 127
4,6-Dinitro-2-methylphenol	ND		3960	2750		ug/Kg	☼	69	49 - 155

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-100681-5 MS**

**Matrix: Solid**

**Analysis Batch: 304925**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 303732**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
4-Bromophenyl phenyl ether	ND		1980	1240		ug/Kg	*	63	58 - 131
4-Chloro-3-methylphenol	ND		1980	1230		ug/Kg	*	62	49 - 125
4-Chloroaniline	ND	F1	1980	876	F1	ug/Kg	*	44	49 - 120
4-Chlorophenyl phenyl ether	ND	F1	1980	1200	F1	ug/Kg	*	61	63 - 124
4-Methylphenol	ND	F1	1980	947	F1	ug/Kg	*	48	50 - 119
4-Nitroaniline	ND	F1	1980	1090	F1	ug/Kg	*	55	63 - 128
4-Nitrophenol	ND		3960	3430		ug/Kg	*	87	43 - 137
Acenaphthene	ND	F1	1980	1040		ug/Kg	*	53	53 - 120
Acenaphthylene	ND	F1	1980	1070	F1	ug/Kg	*	54	58 - 121
Acetophenone	ND	F1 *	1980	916	F1	ug/Kg	*	46	66 - 120
Anthracene	ND	F1	1980	1190	F1	ug/Kg	*	60	62 - 129
Atrazine	ND		3960	2860		ug/Kg	*	72	60 - 164
Benzaldehyde	ND		3960	1480		ug/Kg	*	37	21 - 120
Benzo[a]anthracene	ND	F1	1980	1130	F1	ug/Kg	*	57	65 - 133
Benzo[a]pyrene	ND	F1	1980	1190	F1	ug/Kg	*	60	64 - 127
Benzo[b]fluoranthene	ND	F1	1980	1220	F1	ug/Kg	*	62	64 - 135
Benzo[g,h,i]perylene	ND		1980	1170		ug/Kg	*	59	50 - 152
Benzo[k]fluoranthene	ND	F1	1980	1120	F1	ug/Kg	*	57	58 - 138
Bis(2-chloroethoxy)methane	ND	F1	1980	903	F1	ug/Kg	*	46	61 - 133
Bis(2-chloroethyl)ether	ND	F1	1980	757	F1	ug/Kg	*	38	45 - 120
Bis(2-ethylhexyl) phthalate	ND	F1	1980	1310		ug/Kg	*	66	61 - 133
Butyl benzyl phthalate	ND	F1	1980	1230		ug/Kg	*	62	61 - 129
Caprolactam	ND	F1	3960	2070	F1	ug/Kg	*	52	54 - 133
Carbazole	ND	F1	1980	1150	F1	ug/Kg	*	58	59 - 129
Chrysene	ND	F1	1980	1160	F1	ug/Kg	*	59	64 - 131
Dibenz(a,h)anthracene	ND		1980	1190		ug/Kg	*	60	54 - 148
Di-n-butyl phthalate	ND		1980	1310		ug/Kg	*	66	58 - 130
Di-n-octyl phthalate	ND	F1	1980	1270		ug/Kg	*	64	62 - 133
Dibenzofuran	ND	F1	1980	1100	F1	ug/Kg	*	55	56 - 120
Diethyl phthalate	ND	F1	1980	1350		ug/Kg	*	68	66 - 126
Dimethyl phthalate	ND	F1	1980	1220	F1	ug/Kg	*	62	65 - 124
Fluoranthene	ND	F1	1980	1280		ug/Kg	*	65	62 - 131
Fluorene	ND	F1	1980	1130	F1	ug/Kg	*	57	63 - 126
Hexachlorobenzene	ND		1980	1290		ug/Kg	*	65	60 - 132
Hexachlorobutadiene	ND		1980	1050		ug/Kg	*	53	45 - 120
Hexachlorocyclopentadiene	ND		1980	905		ug/Kg	*	46	31 - 120
Hexachloroethane	ND	F1	1980	733	F1	ug/Kg	*	37	41 - 120
Indeno[1,2,3-cd]pyrene	ND	F1	1980	1180		ug/Kg	*	60	56 - 149
Isophorone	ND	F1	1980	988	F1	ug/Kg	*	50	56 - 120
N-Nitrosodi-n-propylamine	ND	F1	1980	906		ug/Kg	*	46	46 - 120
Naphthalene	ND	F1	1980	896	F1	ug/Kg	*	45	46 - 120
Nitrobenzene	ND	F1	1980	900	F1	ug/Kg	*	45	49 - 120
Pentachlorophenol	ND		3960	2630		ug/Kg	*	67	33 - 136
Phenanthrene	ND	F1	1980	1170	F1	ug/Kg	*	59	60 - 130
Phenol	ND		1980	844		ug/Kg	*	43	36 - 120
Pyrene	ND		1980	1170		ug/Kg	*	59	51 - 133

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-100681-5 MS**

**Matrix: Solid**

**Analysis Batch: 304925**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 303732**

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	47		34 - 132
Phenol-d5 (Surr)	43		11 - 120
p-Terphenyl-d14 (Surr)	60	X	65 - 153
2,4,6-Tribromophenol (Surr)	76		39 - 146
2-Fluorobiphenyl	52		37 - 120
2-Fluorophenol (Surr)	39		18 - 120

**Lab Sample ID: 480-100681-5 MSD**

**Matrix: Solid**

**Analysis Batch: 304925**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 303732**

Analyte	Sample		Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Biphenyl	ND	F1	1980	978	F1	ug/Kg	*	49	71 - 120	3	20	
bis (2-chloroisopropyl) ether	ND	F1	1980	651	F1	ug/Kg	*	33	44 - 120	3	24	
2,4,5-Trichlorophenol	ND		1980	1190		ug/Kg	*	60	59 - 126	1	18	
2,4,6-Trichlorophenol	ND	F1	1980	1140	F1	ug/Kg	*	58	59 - 123	9	19	
2,4-Dichlorophenol	ND		1980	1070		ug/Kg	*	54	52 - 120	4	19	
2,4-Dimethylphenol	ND		1980	1050		ug/Kg	*	53	36 - 120	3	42	
2,4-Dinitrophenol	ND		3950	2550		ug/Kg	*	64	35 - 146	5	22	
2,4-Dinitrotoluene	ND		1980	1190		ug/Kg	*	60	55 - 125	5	20	
2,6-Dinitrotoluene	ND	F1	1980	1120	F1	ug/Kg	*	57	66 - 128	7	15	
2-Chloronaphthalene	ND	F1	1980	965	F1	ug/Kg	*	49	57 - 120	4	21	
2-Chlorophenol	ND		1980	863		ug/Kg	*	44	38 - 120	1	25	
2-Methylphenol	ND	F1	1980	865	F1	ug/Kg	*	44	48 - 120	2	27	
2-Methylnaphthalene	ND		1980	995		ug/Kg	*	50	47 - 120	1	21	
2-Nitroaniline	ND	F1	1980	1080	F1	ug/Kg	*	55	61 - 130	7	15	
2-Nitrophenol	ND		1980	1040		ug/Kg	*	52	50 - 120	2	18	
3,3'-Dichlorobenzidine	ND		3950	2170		ug/Kg	*	55	48 - 126	6	25	
3-Nitroaniline	ND	F1	1980	1010	F1	ug/Kg	*	51	61 - 127	6	19	
4,6-Dinitro-2-methylphenol	ND		3950	2660		ug/Kg	*	67	49 - 155	3	15	
4-Bromophenyl phenyl ether	ND		1980	1190		ug/Kg	*	60	58 - 131	4	15	
4-Chloro-3-methylphenol	ND		1980	1160		ug/Kg	*	59	49 - 125	6	27	
4-Chloroaniline	ND	F1	1980	846	F1	ug/Kg	*	43	49 - 120	3	22	
4-Chlorophenyl phenyl ether	ND	F1	1980	1100	F1	ug/Kg	*	56	63 - 124	8	16	
4-Methylphenol	ND	F1	1980	913	F1	ug/Kg	*	46	50 - 119	4	24	
4-Nitroaniline	ND	F1	1980	1050	F1	ug/Kg	*	53	63 - 128	4	24	
4-Nitrophenol	ND		3950	3120		ug/Kg	*	79	43 - 137	9	25	
Acenaphthene	ND	F1	1980	1010	F1	ug/Kg	*	51	53 - 120	4	35	
Acenaphthylene	ND	F1	1980	1020	F1	ug/Kg	*	51	58 - 121	5	18	
Acetophenone	ND	F1 *	1980	920	F1	ug/Kg	*	46	66 - 120	0	20	
Anthracene	ND	F1	1980	1130	F1	ug/Kg	*	57	62 - 129	5	15	
Atrazine	ND		3950	2540		ug/Kg	*	64	60 - 164	12	20	
Benzaldehyde	ND		3950	1520		ug/Kg	*	38	21 - 120	2	20	
Benzo[a]anthracene	ND	F1	1980	1070	F1	ug/Kg	*	54	65 - 133	6	15	
Benzo[a]pyrene	ND	F1	1980	1120	F1	ug/Kg	*	56	64 - 127	6	15	
Benzo[b]fluoranthene	ND	F1	1980	1100	F1	ug/Kg	*	56	64 - 135	11	15	
Benzo[g,h,i]perylene	ND		1980	1080		ug/Kg	*	55	50 - 152	7	15	
Benzo[k]fluoranthene	ND	F1	1980	1110	F1	ug/Kg	*	56	58 - 138	1	22	

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-100681-5 MSD**

**Matrix: Solid**

**Analysis Batch: 304925**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 303732**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Bis(2-chloroethoxy)methane	ND	F1	1980	893	F1	ug/Kg	*	45	61 - 133	1	17
Bis(2-chloroethyl)ether	ND	F1	1980	762	F1	ug/Kg	*	39	45 - 120	1	21
Bis(2-ethylhexyl) phthalate	ND	F1	1980	1180	F1	ug/Kg	*	60	61 - 133	10	15
Butyl benzyl phthalate	ND	F1	1980	1150	F1	ug/Kg	*	58	61 - 129	6	16
Caprolactam	ND	F1	3950	1990	F1	ug/Kg	*	50	54 - 133	4	20
Carbazole	ND	F1	1980	1060	F1	ug/Kg	*	54	59 - 129	8	20
Chrysene	ND	F1	1980	1090	F1	ug/Kg	*	55	64 - 131	6	15
Dibenz(a,h)anthracene	ND		1980	1100		ug/Kg	*	56	54 - 148	8	15
Di-n-butyl phthalate	ND		1980	1220		ug/Kg	*	62	58 - 130	7	15
Di-n-octyl phthalate	ND	F1	1980	1150	F1	ug/Kg	*	58	62 - 133	10	16
Dibenzofuran	ND	F1	1980	1040	F1	ug/Kg	*	53	56 - 120	5	15
Diethyl phthalate	ND	F1	1980	1210	F1	ug/Kg	*	61	66 - 126	11	15
Dimethyl phthalate	ND	F1	1980	1130	F1	ug/Kg	*	57	65 - 124	7	15
Fluoranthene	ND	F1	1980	1190	F1	ug/Kg	*	60	62 - 131	8	15
Fluorene	ND	F1	1980	1080	F1	ug/Kg	*	54	63 - 126	5	15
Hexachlorobenzene	ND		1980	1220		ug/Kg	*	62	60 - 132	6	15
Hexachlorobutadiene	ND		1980	1100		ug/Kg	*	55	45 - 120	4	44
Hexachlorocyclopentadiene	ND		1980	930		ug/Kg	*	47	31 - 120	3	49
Hexachloroethane	ND	F1	1980	774	F1	ug/Kg	*	39	41 - 120	5	46
Indeno[1,2,3-cd]pyrene	ND	F1	1980	1090	F1	ug/Kg	*	55	56 - 149	8	15
Isophorone	ND	F1	1980	967	F1	ug/Kg	*	49	56 - 120	2	17
N-Nitrosodi-n-propylamine	ND	F1	1980	885	F1	ug/Kg	*	45	46 - 120	2	31
Naphthalene	ND	F1	1980	933		ug/Kg	*	47	46 - 120	4	29
Nitrobenzene	ND	F1	1980	923	F1	ug/Kg	*	47	49 - 120	2	24
Pentachlorophenol	ND		3950	2640		ug/Kg	*	67	33 - 136	0	35
Phenanthrene	ND	F1	1980	1110	F1	ug/Kg	*	56	60 - 130	5	15
Phenol	ND		1980	817		ug/Kg	*	41	36 - 120	3	35
Pyrene	ND		1980	1110		ug/Kg	*	56	51 - 133	5	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	48		34 - 132
Phenol-d5 (Surr)	42		11 - 120
p-Terphenyl-d14 (Surr)	55	X	65 - 153
2,4,6-Tribromophenol (Surr)	74		39 - 146
2-Fluorobiphenyl	50		37 - 120
2-Fluorophenol (Surr)	40		18 - 120

**Lab Sample ID: MB 480-304485/1-A**

**Matrix: Solid**

**Analysis Batch: 304626**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 304485**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Biphenyl	ND		170	25	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		06/01/16 07:31	06/01/16 18:49	1

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-304485/1-A**

**Matrix: Solid**

**Analysis Batch: 304626**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 304485**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-Dinitrophenol	ND		1700	780	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
2-Chloronaphthalene	ND		170	28	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
2-Chlorophenol	ND		170	31	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
2-Methylphenol	ND		170	20	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
2-Methylnaphthalene	ND		170	34	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
2-Nitroaniline	ND		330	25	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
2-Nitrophenol	ND		170	48	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
3-Nitroaniline	ND		330	47	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
4-Chloroaniline	ND		170	42	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
4-Methylphenol	ND		330	20	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
4-Nitroaniline	ND		330	89	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
4-Nitrophenol	ND		330	120	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Acenaphthene	ND		170	25	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Acenaphthylene	ND		170	22	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Acetophenone	ND		170	23	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Anthracene	ND		170	42	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Atrazine	ND		170	59	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Benzaldehyde	ND		170	130	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Benzo[a]anthracene	ND		170	17	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Benzo[a]pyrene	ND		170	25	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Caprolactam	ND		170	51	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Carbazole	ND		170	20	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Chrysene	ND		170	38	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Dibenzofuran	ND		170	20	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Diethyl phthalate	ND		170	22	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Dimethyl phthalate	ND		170	20	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Fluoranthene	ND		170	18	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Fluorene	ND		170	20	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Hexachlorobenzene	ND		170	23	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Hexachlorobutadiene	ND		170	25	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		06/01/16 07:31	06/01/16 18:49	1

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-304485/1-A**

**Matrix: Solid**

**Analysis Batch: 304626**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 304485**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		170	22	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Isophorone	ND		170	36	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Naphthalene	ND		170	22	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Nitrobenzene	ND		170	19	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Pentachlorophenol	ND		330	170	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Phenanthrene	ND		170	25	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Phenol	ND		170	26	ug/Kg		06/01/16 07:31	06/01/16 18:49	1
Pyrene	ND		170	20	ug/Kg		06/01/16 07:31	06/01/16 18:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	71		34 - 132	06/01/16 07:31	06/01/16 18:49	1
Phenol-d5 (Surr)	67		11 - 120	06/01/16 07:31	06/01/16 18:49	1
p-Terphenyl-d14 (Surr)	78		65 - 153	06/01/16 07:31	06/01/16 18:49	1
2,4,6-Tribromophenol (Surr)	91		39 - 146	06/01/16 07:31	06/01/16 18:49	1
2-Fluorobiphenyl	76		37 - 120	06/01/16 07:31	06/01/16 18:49	1
2-Fluorophenol (Surr)	64		18 - 120	06/01/16 07:31	06/01/16 18:49	1

**Lab Sample ID: LCS 480-304485/2-A**

**Matrix: Solid**

**Analysis Batch: 304626**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 304485**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1650	1160	*	ug/Kg		70	71 - 120
bis (2-chloroisopropyl) ether	1650	867		ug/Kg		52	44 - 120
2,4,5-Trichlorophenol	1650	1270		ug/Kg		77	59 - 126
2,4,6-Trichlorophenol	1650	1320		ug/Kg		80	59 - 123
2,4-Dichlorophenol	1650	1250		ug/Kg		75	52 - 120
2,4-Dimethylphenol	1650	1220		ug/Kg		74	36 - 120
2,4-Dinitrophenol	3300	2410		ug/Kg		73	35 - 146
2,4-Dinitrotoluene	1650	1290		ug/Kg		78	55 - 125
2,6-Dinitrotoluene	1650	1250		ug/Kg		76	66 - 128
2-Chloronaphthalene	1650	1140		ug/Kg		69	57 - 120
2-Chlorophenol	1650	1060		ug/Kg		64	38 - 120
2-Methylphenol	1650	1040		ug/Kg		63	48 - 120
2-Methylnaphthalene	1650	1170		ug/Kg		71	47 - 120
2-Nitroaniline	1650	1200		ug/Kg		73	61 - 130
2-Nitrophenol	1650	1170		ug/Kg		71	50 - 120
3,3'-Dichlorobenzidine	3300	1850		ug/Kg		56	48 - 126
3-Nitroaniline	1650	903	*	ug/Kg		55	61 - 127
4,6-Dinitro-2-methylphenol	3300	2420		ug/Kg		73	49 - 155
4-Bromophenyl phenyl ether	1650	1330		ug/Kg		81	58 - 131
4-Chloro-3-methylphenol	1650	1310		ug/Kg		79	49 - 125
4-Chloroaniline	1650	707	*	ug/Kg		43	49 - 120
4-Chlorophenyl phenyl ether	1650	1280		ug/Kg		77	63 - 124
4-Methylphenol	1650	1080		ug/Kg		66	50 - 119

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-304485/2-A**

**Matrix: Solid**

**Analysis Batch: 304626**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 304485**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	1650	1080		ug/Kg		65	63 - 128
4-Nitrophenol	3300	3320		ug/Kg		101	43 - 137
Acenaphthene	1650	1170		ug/Kg		71	53 - 120
Acenaphthylene	1650	1180		ug/Kg		71	58 - 121
Acetophenone	1650	1100		ug/Kg		66	66 - 120
Anthracene	1650	1250		ug/Kg		76	62 - 129
Atrazine	3300	2620		ug/Kg		79	60 - 164
Benzaldehyde	3300	1180		ug/Kg		36	21 - 120
Benzo[a]anthracene	1650	1200		ug/Kg		73	65 - 133
Benzo[a]pyrene	1650	1260		ug/Kg		76	64 - 127
Benzo[b]fluoranthene	1650	1290		ug/Kg		78	64 - 135
Benzo[g,h,i]perylene	1650	1340		ug/Kg		81	50 - 152
Benzo[k]fluoranthene	1650	1160		ug/Kg		70	58 - 138
Bis(2-chloroethoxy)methane	1650	1060		ug/Kg		64	61 - 133
Bis(2-chloroethyl)ether	1650	958		ug/Kg		58	45 - 120
Bis(2-ethylhexyl) phthalate	1650	1350		ug/Kg		81	61 - 133
Butyl benzyl phthalate	1650	1270		ug/Kg		77	61 - 129
Caprolactam	3300	2150		ug/Kg		65	54 - 133
Carbazole	1650	1250		ug/Kg		75	59 - 129
Chrysene	1650	1230		ug/Kg		74	64 - 131
Dibenz(a,h)anthracene	1650	1300		ug/Kg		79	54 - 148
Di-n-butyl phthalate	1650	1380		ug/Kg		84	58 - 130
Di-n-octyl phthalate	1650	1330		ug/Kg		80	62 - 133
Dibenzofuran	1650	1200		ug/Kg		73	56 - 120
Diethyl phthalate	1650	1370		ug/Kg		83	66 - 126
Dimethyl phthalate	1650	1320		ug/Kg		80	65 - 124
Fluoranthene	1650	1320		ug/Kg		80	62 - 131
Fluorene	1650	1240		ug/Kg		75	63 - 126
Hexachlorobenzene	1650	1330		ug/Kg		81	60 - 132
Hexachlorobutadiene	1650	1340		ug/Kg		81	45 - 120
Hexachlorocyclopentadiene	1650	1060		ug/Kg		64	31 - 120
Hexachloroethane	1650	1070		ug/Kg		65	41 - 120
Indeno[1,2,3-cd]pyrene	1650	1320		ug/Kg		80	56 - 149
Isophorone	1650	1130		ug/Kg		68	56 - 120
N-Nitrosodi-n-propylamine	1650	1060		ug/Kg		64	46 - 120
Naphthalene	1650	1110		ug/Kg		67	46 - 120
Nitrobenzene	1650	1080		ug/Kg		65	49 - 120
Pentachlorophenol	3300	2890		ug/Kg		87	33 - 136
Phenanthrene	1650	1240		ug/Kg		75	60 - 130
Phenol	1650	1010		ug/Kg		61	36 - 120
Pyrene	1650	1250		ug/Kg		76	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	69		34 - 132
Phenol-d5 (Surr)	63		11 - 120
p-Terphenyl-d14 (Surr)	75		65 - 153
2,4,6-Tribromophenol (Surr)	94		39 - 146
2-Fluorobiphenyl	73		37 - 120

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-304485/2-A

Matrix: Solid

Analysis Batch: 304626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 304485

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	62		18 - 120

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Lab Sample ID: 480-100681-5 MS

Matrix: Solid

Analysis Batch: 304626

Client Sample ID: RI SB-17 (4-6)

Prep Type: Total/NA

Prep Batch: 304485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl - RE	ND	*	1950	1390		ug/Kg	☼	71	71 - 120
bis (2-chloroisopropyl) ether - RE	ND		1950	1020		ug/Kg	☼	53	44 - 120
2,4,5-Trichlorophenol - RE	ND		1950	1500		ug/Kg	☼	77	59 - 126
2,4,6-Trichlorophenol - RE	ND		1950	1530		ug/Kg	☼	79	59 - 123
2,4-Dichlorophenol - RE	ND		1950	1500		ug/Kg	☼	77	52 - 120
2,4-Dimethylphenol - RE	ND		1950	1470		ug/Kg	☼	75	36 - 120
2,4-Dinitrophenol - RE	ND		3890	2050		ug/Kg	☼	53	35 - 146
2,4-Dinitrotoluene - RE	ND		1950	1500		ug/Kg	☼	77	55 - 125
2,6-Dinitrotoluene - RE	ND		1950	1480		ug/Kg	☼	76	66 - 128
2-Chloronaphthalene - RE	ND		1950	1340		ug/Kg	☼	69	57 - 120
2-Chlorophenol - RE	ND		1950	1270		ug/Kg	☼	65	38 - 120
2-Methylphenol - RE	ND		1950	1280		ug/Kg	☼	66	48 - 120
2-Methylnaphthalene - RE	ND		1950	1390		ug/Kg	☼	72	47 - 120
2-Nitroaniline - RE	ND		1950	1440		ug/Kg	☼	74	61 - 130
2-Nitrophenol - RE	ND		1950	1420		ug/Kg	☼	73	50 - 120
3,3'-Dichlorobenzidine - RE	ND		3890	2700		ug/Kg	☼	69	48 - 126
3-Nitroaniline - RE	ND	*	1950	1350		ug/Kg	☼	70	61 - 127
4,6-Dinitro-2-methylphenol - RE	ND		3890	2390		ug/Kg	☼	61	49 - 155
4-Bromophenyl phenyl ether - RE	ND		1950	1530		ug/Kg	☼	78	58 - 131
4-Chloro-3-methylphenol - RE	ND		1950	1540		ug/Kg	☼	79	49 - 125
4-Chloroaniline - RE	ND	*	1950	1170		ug/Kg	☼	60	49 - 120
4-Chlorophenyl phenyl ether - RE	ND		1950	1490		ug/Kg	☼	77	63 - 124
4-Methylphenol - RE	ND		1950	1320		ug/Kg	☼	68	50 - 119
4-Nitroaniline - RE	ND		1950	1400		ug/Kg	☼	72	63 - 128
4-Nitrophenol - RE	ND		3890	3780		ug/Kg	☼	97	43 - 137
Acenaphthene - RE	ND		1950	1380		ug/Kg	☼	71	53 - 120
Acenaphthylene - RE	ND		1950	1400		ug/Kg	☼	72	58 - 121
Acetophenone - RE	ND		1950	1320		ug/Kg	☼	68	66 - 120
Anthracene - RE	ND		1950	1470		ug/Kg	☼	76	62 - 129
Atrazine - RE	ND		3890	3430		ug/Kg	☼	88	60 - 164
Benzaldehyde - RE	ND		3890	1570		ug/Kg	☼	40	21 - 120
Benzo[a]anthracene - RE	ND		1950	1410		ug/Kg	☼	72	65 - 133
Benzo[a]pyrene - RE	ND		1950	1480		ug/Kg	☼	76	64 - 127
Benzo[b]fluoranthene - RE	ND		1950	1530		ug/Kg	☼	79	64 - 135
Benzo[g,h,i]perylene - RE	ND		1950	1580		ug/Kg	☼	81	50 - 152
Benzo[k]fluoranthene - RE	ND		1950	1370		ug/Kg	☼	70	58 - 138
Bis(2-chloroethoxy)methane - RE	ND		1950	1270		ug/Kg	☼	65	61 - 133
Bis(2-chloroethyl)ether - RE	ND		1950	1150		ug/Kg	☼	59	45 - 120
Bis(2-ethylhexyl) phthalate - RE	ND		1950	1580		ug/Kg	☼	81	61 - 133

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

**Lab Sample ID: 480-100681-5 MS**

**Matrix: Solid**

**Analysis Batch: 304626**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 304485**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Butyl benzyl phthalate - RE	ND		1950	1520		ug/Kg	☼	78	61 - 129
Caprolactam - RE	ND		3890	2640		ug/Kg	☼	68	54 - 133
Carbazole - RE	ND		1950	1480		ug/Kg	☼	76	59 - 129
Chrysene - RE	ND		1950	1420		ug/Kg	☼	73	64 - 131
Dibenz(a,h)anthracene - RE	ND		1950	1540		ug/Kg	☼	79	54 - 148
Di-n-butyl phthalate - RE	ND		1950	1610		ug/Kg	☼	83	58 - 130
Di-n-octyl phthalate - RE	ND		1950	1560		ug/Kg	☼	80	62 - 133
Dibenzofuran - RE	ND		1950	1450		ug/Kg	☼	74	56 - 120
Diethyl phthalate - RE	ND		1950	1610		ug/Kg	☼	83	66 - 126
Dimethyl phthalate - RE	ND		1950	1520		ug/Kg	☼	78	65 - 124
Fluoranthene - RE	ND		1950	1570		ug/Kg	☼	81	62 - 131
Fluorene - RE	ND		1950	1460		ug/Kg	☼	75	63 - 126
Hexachlorobenzene - RE	ND		1950	1580		ug/Kg	☼	81	60 - 132
Hexachlorobutadiene - RE	ND		1950	1600		ug/Kg	☼	82	45 - 120
Hexachlorocyclopentadiene - RE	ND		1950	1120		ug/Kg	☼	57	31 - 120
Hexachloroethane - RE	ND		1950	1250		ug/Kg	☼	64	41 - 120
Indeno[1,2,3-cd]pyrene - RE	ND		1950	1550		ug/Kg	☼	80	56 - 149
Isophorone - RE	ND		1950	1320		ug/Kg	☼	68	56 - 120
N-Nitrosodi-n-propylamine - RE	ND		1950	1260		ug/Kg	☼	65	46 - 120
Naphthalene - RE	ND		1950	1300		ug/Kg	☼	67	46 - 120
Nitrobenzene - RE	ND		1950	1280		ug/Kg	☼	66	49 - 120
Pentachlorophenol - RE	ND		3890	3070		ug/Kg	☼	79	33 - 136
Phenanthrene - RE	ND		1950	1460		ug/Kg	☼	75	60 - 130
Phenol - RE	ND		1950	1250		ug/Kg	☼	64	36 - 120
Pyrene - RE	ND		1950	1460		ug/Kg	☼	75	51 - 133

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr) - RE	68		34 - 132
Phenol-d5 (Surr) - RE	65		11 - 120
p-Terphenyl-d14 (Surr) - RE	74		65 - 153
2,4,6-Tribromophenol (Surr) - RE	92		39 - 146
2-Fluorobiphenyl - RE	74		37 - 120
2-Fluorophenol (Surr) - RE	62		18 - 120

**Lab Sample ID: 480-100681-5 MSD**

**Matrix: Solid**

**Analysis Batch: 304626**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 304485**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Biphenyl - RE	ND	*	1990	1410		ug/Kg	☼	71	71 - 120	1	20
bis (2-chloroisopropyl) ether - RE	ND		1990	1010		ug/Kg	☼	51	44 - 120	1	24
2,4,5-Trichlorophenol - RE	ND		1990	1560		ug/Kg	☼	78	59 - 126	4	18
2,4,6-Trichlorophenol - RE	ND		1990	1570		ug/Kg	☼	79	59 - 123	2	19
2,4-Dichlorophenol - RE	ND		1990	1530		ug/Kg	☼	77	52 - 120	2	19
2,4-Dimethylphenol - RE	ND		1990	1490		ug/Kg	☼	75	36 - 120	1	42
2,4-Dinitrophenol - RE	ND		3970	2230		ug/Kg	☼	56	35 - 146	8	22
2,4-Dinitrotoluene - RE	ND		1990	1550		ug/Kg	☼	78	55 - 125	4	20

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

**Lab Sample ID: 480-100681-5 MSD**

**Matrix: Solid**

**Analysis Batch: 304626**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 304485**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,6-Dinitrotoluene - RE	ND		1990	1540		ug/Kg	*	77	66 - 128	4	15
2-Chloronaphthalene - RE	ND		1990	1360		ug/Kg	*	68	57 - 120	1	21
2-Chlorophenol - RE	ND		1990	1270		ug/Kg	*	64	38 - 120	0	25
2-Methylphenol - RE	ND		1990	1280		ug/Kg	*	64	48 - 120	0	27
2-Methylnaphthalene - RE	ND		1990	1400		ug/Kg	*	70	47 - 120	0	21
2-Nitroaniline - RE	ND		1990	1490		ug/Kg	*	75	61 - 130	3	15
2-Nitrophenol - RE	ND		1990	1450		ug/Kg	*	73	50 - 120	2	18
3,3'-Dichlorobenzidine - RE	ND		3970	2860		ug/Kg	*	72	48 - 126	6	25
3-Nitroaniline - RE	ND *		1990	1380		ug/Kg	*	69	61 - 127	2	19
4,6-Dinitro-2-methylphenol - RE	ND		3970	2730		ug/Kg	*	69	49 - 155	13	15
4-Bromophenyl phenyl ether - RE	ND		1990	1580		ug/Kg	*	80	58 - 131	4	15
4-Chloro-3-methylphenol - RE	ND		1990	1600		ug/Kg	*	81	49 - 125	4	27
4-Chloroaniline - RE	ND *		1990	1180		ug/Kg	*	60	49 - 120	1	22
4-Chlorophenyl phenyl ether - RE	ND		1990	1560		ug/Kg	*	78	63 - 124	4	16
4-Methylphenol - RE	ND		1990	1310		ug/Kg	*	66	50 - 119	1	24
4-Nitroaniline - RE	ND		1990	1400		ug/Kg	*	71	63 - 128	0	24
4-Nitrophenol - RE	ND		3970	4040		ug/Kg	*	102	43 - 137	6	25
Acenaphthene - RE	ND		1990	1420		ug/Kg	*	71	53 - 120	3	35
Acenaphthylene - RE	ND		1990	1420		ug/Kg	*	71	58 - 121	2	18
Acetophenone - RE	ND		1990	1320		ug/Kg	*	66	66 - 120	0	20
Anthracene - RE	ND		1990	1530		ug/Kg	*	77	62 - 129	4	15
Atrazine - RE	ND		3970	3430		ug/Kg	*	86	60 - 164	0	20
Benzaldehyde - RE	ND		3970	1700		ug/Kg	*	43	21 - 120	8	20
Benzo[a]anthracene - RE	ND		1990	1500		ug/Kg	*	75	65 - 133	6	15
Benzo[a]pyrene - RE	ND		1990	1530		ug/Kg	*	77	64 - 127	3	15
Benzo[b]fluoranthene - RE	ND		1990	1570		ug/Kg	*	79	64 - 135	2	15
Benzo[g,h,i]perylene - RE	ND		1990	1650		ug/Kg	*	83	50 - 152	4	15
Benzo[k]fluoranthene - RE	ND		1990	1440		ug/Kg	*	72	58 - 138	5	22
Bis(2-chloroethoxy)methane - RE	ND		1990	1300		ug/Kg	*	66	61 - 133	2	17
Bis(2-chloroethyl)ether - RE	ND		1990	1120		ug/Kg	*	56	45 - 120	2	21
Bis(2-ethylhexyl) phthalate - RE	ND		1990	1670		ug/Kg	*	84	61 - 133	5	15
Butyl benzyl phthalate - RE	ND		1990	1570		ug/Kg	*	79	61 - 129	3	16
Caprolactam - RE	ND		3970	2780		ug/Kg	*	70	54 - 133	5	20
Carbazole - RE	ND		1990	1500		ug/Kg	*	75	59 - 129	1	20
Chrysene - RE	ND		1990	1520		ug/Kg	*	77	64 - 131	7	15
Dibenz(a,h)anthracene - RE	ND		1990	1610		ug/Kg	*	81	54 - 148	4	15
Di-n-butyl phthalate - RE	ND		1990	1650		ug/Kg	*	83	58 - 130	2	15
Di-n-octyl phthalate - RE	ND		1990	1660		ug/Kg	*	84	62 - 133	7	16
Dibenzofuran - RE	ND		1990	1480		ug/Kg	*	74	56 - 120	2	15
Diethyl phthalate - RE	ND		1990	1690		ug/Kg	*	85	66 - 126	5	15
Dimethyl phthalate - RE	ND		1990	1570		ug/Kg	*	79	65 - 124	3	15
Fluoranthene - RE	ND		1990	1580		ug/Kg	*	80	62 - 131	1	15
Fluorene - RE	ND		1990	1480		ug/Kg	*	75	63 - 126	1	15
Hexachlorobenzene - RE	ND		1990	1640		ug/Kg	*	82	60 - 132	4	15
Hexachlorobutadiene - RE	ND		1990	1590		ug/Kg	*	80	45 - 120	1	44
Hexachlorocyclopentadiene - RE	ND		1990	1150		ug/Kg	*	58	31 - 120	3	49
Hexachloroethane - RE	ND		1990	1240		ug/Kg	*	62	41 - 120	1	46
Indeno[1,2,3-cd]pyrene - RE	ND		1990	1630		ug/Kg	*	82	56 - 149	5	15

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## QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

### Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

**Lab Sample ID: 480-100681-5 MSD**

**Matrix: Solid**

**Analysis Batch: 304626**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 304485**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Isophorone - RE	ND		1990	1380		ug/Kg	✱	69	56 - 120	4	17
N-Nitrosodi-n-propylamine - RE	ND		1990	1260		ug/Kg	✱	63	46 - 120	0	31
Naphthalene - RE	ND		1990	1340		ug/Kg	✱	67	46 - 120	3	29
Nitrobenzene - RE	ND		1990	1300		ug/Kg	✱	65	49 - 120	1	24
Pentachlorophenol - RE	ND		3970	3110		ug/Kg	✱	78	33 - 136	1	35
Phenanthrene - RE	ND		1990	1510		ug/Kg	✱	76	60 - 130	3	15
Phenol - RE	ND		1990	1200		ug/Kg	✱	60	36 - 120	4	35
Pyrene - RE	ND		1990	1500		ug/Kg	✱	75	51 - 133	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr) - RE	68		34 - 132
Phenol-d5 (Surr) - RE	61		11 - 120
p-Terphenyl-d14 (Surr) - RE	74		65 - 153
2,4,6-Tribromophenol (Surr) - RE	92		39 - 146
2-Fluorobiphenyl - RE	71		37 - 120
2-Fluorophenol (Surr) - RE	59		18 - 120

### Method: 8081B - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 480-304674/1-A**

**Matrix: Solid**

**Analysis Batch: 304913**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 304674**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	ND		1.6	0.32	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
4,4'-DDE	ND		1.6	0.34	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
4,4'-DDT	ND		1.6	0.38	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
Aldrin	ND		1.6	0.40	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
alpha-BHC	ND		1.6	0.30	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
alpha-Chlordane	ND		1.6	0.82	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
beta-BHC	ND		1.6	0.30	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
delta-BHC	ND		1.6	0.31	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
Dieldrin	ND		1.6	0.39	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
Endosulfan I	ND		1.6	0.32	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
Endosulfan II	ND		1.6	0.30	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
Endosulfan sulfate	ND		1.6	0.31	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
Endrin	ND		1.6	0.32	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
Endrin aldehyde	ND		1.6	0.42	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
Endrin ketone	ND		1.6	0.40	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
gamma-BHC (Lindane)	ND		1.6	0.30	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
gamma-Chlordane	ND		1.6	0.52	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
Heptachlor	ND		1.6	0.36	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
Heptachlor epoxide	ND		1.6	0.42	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
Methoxychlor	ND		1.6	0.33	ug/Kg		06/02/16 07:25	06/03/16 09:48	1
Toxaphene	ND		16	9.6	ug/Kg		06/02/16 07:25	06/03/16 09:48	1

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: MB 480-304674/1-A**

**Matrix: Solid**

**Analysis Batch: 304913**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 304674**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	62		32 - 136	06/02/16 07:25	06/03/16 09:48	1
DCB Decachlorobiphenyl	73		32 - 136	06/02/16 07:25	06/03/16 09:48	1
Tetrachloro-m-xylene	59		30 - 124	06/02/16 07:25	06/03/16 09:48	1
Tetrachloro-m-xylene	57		30 - 124	06/02/16 07:25	06/03/16 09:48	1

**Lab Sample ID: LCS 480-304674/2-A**

**Matrix: Solid**

**Analysis Batch: 304913**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 304674**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDE	16.6	11.3		ug/Kg		68	52 - 131
4,4'-DDT	16.6	14.7		ug/Kg		88	50 - 131
Aldrin	16.6	9.45		ug/Kg		57	35 - 120
alpha-BHC	16.6	9.46		ug/Kg		57	49 - 120
alpha-Chlordane	16.6	11.2		ug/Kg		67	40 - 133
beta-BHC	16.6	9.99		ug/Kg		60	52 - 127
delta-BHC	16.6	10.2		ug/Kg		61	45 - 123
Dieldrin	16.6	12.7		ug/Kg		77	50 - 131
Endosulfan I	16.6	11.6		ug/Kg		70	43 - 121
Endosulfan II	16.6	12.8		ug/Kg		77	48 - 134
Endosulfan sulfate	16.6	11.9		ug/Kg		72	46 - 144
Endrin	16.6	13.3		ug/Kg		80	46 - 134
Endrin aldehyde	16.6	12.1		ug/Kg		73	31 - 137
Endrin ketone	16.6	13.9		ug/Kg		83	44 - 140
gamma-BHC (Lindane)	16.6	10.6		ug/Kg		64	50 - 120
gamma-Chlordane	16.6	10.9		ug/Kg		66	52 - 129
Heptachlor	16.6	12.1		ug/Kg		73	51 - 121
Heptachlor epoxide	16.6	10.7		ug/Kg		65	52 - 129
Methoxychlor	16.6	18.0		ug/Kg		108	50 - 149

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	62		32 - 136
DCB Decachlorobiphenyl	74		32 - 136
Tetrachloro-m-xylene	55		30 - 124
Tetrachloro-m-xylene	88		30 - 124

**Lab Sample ID: 480-100681-5 MS**

**Matrix: Solid**

**Analysis Batch: 304913**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 304674**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDE	ND		19.5	12.8		ug/Kg	☼	66	34 - 138
4,4'-DDT	ND		19.5	17.0		ug/Kg	☼	87	43 - 131
Aldrin	ND		19.5	11.6		ug/Kg	☼	60	37 - 125
alpha-BHC	ND		19.5	11.1		ug/Kg	☼	57	39 - 117
alpha-Chlordane	ND		19.5	12.6		ug/Kg	☼	64	29 - 141

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: 480-100681-5 MS**

**Matrix: Solid**

**Analysis Batch: 304913**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 304674**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
beta-BHC	ND		19.5	11.6		ug/Kg	*	60	36 - 139
delta-BHC	ND		19.5	12.0		ug/Kg	*	61	23 - 132
Dieldrin	ND		19.5	14.4		ug/Kg	*	74	38 - 135
Endosulfan I	ND		19.5	13.0		ug/Kg	*	66	39 - 128
Endosulfan II	ND		19.5	14.5		ug/Kg	*	74	24 - 134
Endosulfan sulfate	ND		19.5	13.4		ug/Kg	*	69	19 - 137
Endrin	ND		19.5	15.1		ug/Kg	*	77	41 - 147
Endrin aldehyde	ND		19.5	13.9		ug/Kg	*	71	20 - 120
Endrin ketone	ND		19.5	16.1		ug/Kg	*	82	31 - 139
gamma-BHC (Lindane)	ND		19.5	12.3		ug/Kg	*	63	50 - 120
gamma-Chlordane	ND	F2	19.5	12.4		ug/Kg	*	64	31 - 140
Heptachlor	ND		19.5	14.0		ug/Kg	*	72	42 - 128
Heptachlor epoxide	ND		19.5	12.6		ug/Kg	*	64	26 - 141
Methoxychlor	ND		19.5	21.2		ug/Kg	*	108	44 - 157

Surrogate	MS %Recovery	MS Qualifier	MS Limits
DCB Decachlorobiphenyl	63		32 - 136
DCB Decachlorobiphenyl	73		32 - 136
Tetrachloro-m-xylene	55		30 - 124
Tetrachloro-m-xylene	82		30 - 124

**Lab Sample ID: 480-100681-5 MSD**

**Matrix: Solid**

**Analysis Batch: 304913**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 304674**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier					RPD	Limit
4,4'-DDD	ND		19.7	14.3		ug/Kg	*	72	26 - 162	0	21
4,4'-DDE	ND		19.7	12.8		ug/Kg	*	65	34 - 138	0	18
4,4'-DDT	ND		19.7	17.3		ug/Kg	*	88	43 - 131	2	25
Aldrin	ND		19.7	11.6		ug/Kg	*	59	37 - 125	0	12
alpha-BHC	ND		19.7	11.1		ug/Kg	*	56	39 - 117	0	15
alpha-Chlordane	ND		19.7	12.7		ug/Kg	*	65	29 - 141	1	23
beta-BHC	ND		19.7	11.8		ug/Kg	*	60	36 - 139	2	19
delta-BHC	ND		19.7	12.1		ug/Kg	*	61	23 - 132	1	14
Dieldrin	ND		19.7	14.4		ug/Kg	*	73	38 - 135	1	12
Endosulfan I	ND		19.7	13.2		ug/Kg	*	67	39 - 128	2	18
Endosulfan II	ND		19.7	14.5		ug/Kg	*	74	24 - 134	0	26
Endosulfan sulfate	ND		19.7	13.6		ug/Kg	*	69	19 - 137	1	35
Endrin	ND		19.7	15.2		ug/Kg	*	77	41 - 147	1	20
Endrin aldehyde	ND		19.7	13.8		ug/Kg	*	70	20 - 120	1	47
Endrin ketone	ND		19.7	16.2		ug/Kg	*	82	31 - 139	1	37
gamma-BHC (Lindane)	ND		19.7	12.5		ug/Kg	*	64	50 - 120	2	12
gamma-Chlordane	ND	F2	19.7	21.3	F2	ug/Kg	*	108	31 - 140	52	15
Heptachlor	ND		19.7	14.4		ug/Kg	*	73	42 - 128	2	22
Heptachlor epoxide	ND		19.7	12.9		ug/Kg	*	65	26 - 141	3	15
Methoxychlor	ND		19.7	21.8		ug/Kg	*	111	44 - 157	3	24

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: 480-100681-5 MSD**  
**Matrix: Solid**  
**Analysis Batch: 304913**

**Client Sample ID: RI SB-17 (4-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 304674**

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	59		32 - 136
DCB Decachlorobiphenyl	70		32 - 136
Tetrachloro-m-xylene	52		30 - 124
Tetrachloro-m-xylene	58		30 - 124

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 480-303838/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303915**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303838**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.18	0.036	mg/Kg		05/26/16 12:03	05/26/16 20:41	1
PCB-1221	ND		0.18	0.036	mg/Kg		05/26/16 12:03	05/26/16 20:41	1
PCB-1232	ND		0.18	0.036	mg/Kg		05/26/16 12:03	05/26/16 20:41	1
PCB-1242	ND		0.18	0.036	mg/Kg		05/26/16 12:03	05/26/16 20:41	1
PCB-1248	ND		0.18	0.036	mg/Kg		05/26/16 12:03	05/26/16 20:41	1
PCB-1254	ND		0.18	0.085	mg/Kg		05/26/16 12:03	05/26/16 20:41	1
PCB-1260	ND		0.18	0.085	mg/Kg		05/26/16 12:03	05/26/16 20:41	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	116		60 - 154	05/26/16 12:03	05/26/16 20:41	1
Tetrachloro-m-xylene	104		60 - 154	05/26/16 12:03	05/26/16 20:41	1
DCB Decachlorobiphenyl	125		65 - 174	05/26/16 12:03	05/26/16 20:41	1
DCB Decachlorobiphenyl	108		65 - 174	05/26/16 12:03	05/26/16 20:41	1

**Lab Sample ID: LCS 480-303838/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303915**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303838**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
PCB-1016	1.69	2.27		mg/Kg		134	51 - 185
PCB-1260	1.69	2.24		mg/Kg		133	61 - 184

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	131		60 - 154
Tetrachloro-m-xylene	113		60 - 154
DCB Decachlorobiphenyl	138		65 - 174
DCB Decachlorobiphenyl	118		65 - 174

**Lab Sample ID: 480-100681-5 MS**  
**Matrix: Solid**  
**Analysis Batch: 303915**

**Client Sample ID: RI SB-17 (4-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 303838**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
PCB-1016	ND		2.57	3.52		mg/Kg	☼	137	50 - 177
PCB-1260	ND		2.57	3.56		mg/Kg	☼	139	33 - 200

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 480-100681-5 MS**  
**Matrix: Solid**  
**Analysis Batch: 303915**

**Client Sample ID: RI SB-17 (4-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 303838**

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	129		60 - 154
Tetrachloro-m-xylene	120		60 - 154
DCB Decachlorobiphenyl	140		65 - 174
DCB Decachlorobiphenyl	124		65 - 174

**Lab Sample ID: 480-100681-5 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303915**

**Client Sample ID: RI SB-17 (4-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 303838**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.63	3.36		mg/Kg	☼	128	50 - 177	5	50
PCB-1260	ND		2.63	3.46		mg/Kg	☼	132	33 - 200	3	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	120		60 - 154
Tetrachloro-m-xylene	113		60 - 154
DCB Decachlorobiphenyl	131		65 - 174
DCB Decachlorobiphenyl	120		65 - 174

## Method: 8151A - Herbicides (GC)

**Lab Sample ID: MB 480-303825/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304337**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303825**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		16	5.2	ug/Kg		05/26/16 11:30	05/31/16 14:20	1
Silvex (2,4,5-TP)	ND		16	5.8	ug/Kg		05/26/16 11:30	05/31/16 14:20	1
2,4-D	ND		16	10	ug/Kg		05/26/16 11:30	05/31/16 14:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	78		28 - 129	05/26/16 11:30	05/31/16 14:20	1
2,4-Dichlorophenylacetic acid	93		28 - 129	05/26/16 11:30	05/31/16 14:20	1

**Lab Sample ID: LCS 480-303825/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304337**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303825**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	66.4	44.4		ug/Kg		67	29 - 138
Silvex (2,4,5-TP)	66.4	47.1		ug/Kg		71	26 - 168
2,4-D	66.4	47.0		ug/Kg		71	28 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	95		28 - 129
2,4-Dichlorophenylacetic acid	95		28 - 129

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 8151A - Herbicides (GC) (Continued)

**Lab Sample ID: 480-100681-5 MS**

**Matrix: Solid**

**Analysis Batch: 304337**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 303825**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
2,4,5-T	ND		79.8	48.7		ug/Kg	☼	61	29 - 123	
Silvex (2,4,5-TP)	ND		79.8	52.2		ug/Kg	☼	65	22 - 140	
2,4-D	ND		79.8	60.9		ug/Kg	☼	76	32 - 115	
		<b>MS MS</b>								
Surrogate	%Recovery	Qualifier	Limits							
2,4-Dichlorophenylacetic acid	99		28 - 129							
2,4-Dichlorophenylacetic acid	97		28 - 129							

**Lab Sample ID: 480-100681-5 MSD**

**Matrix: Solid**

**Analysis Batch: 304337**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 303825**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
2,4,5-T	ND		79.5	44.0		ug/Kg	☼	55	29 - 123	10	50	
Silvex (2,4,5-TP)	ND		79.5	46.8		ug/Kg	☼	59	22 - 140	11	50	
2,4-D	ND		79.5	49.3		ug/Kg	☼	62	32 - 115	21	50	
		<b>MSD MSD</b>										
Surrogate	%Recovery	Qualifier	Limits									
2,4-Dichlorophenylacetic acid	82		28 - 129									
2,4-Dichlorophenylacetic acid	87		28 - 129									

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 480-303850/1-A**

**Matrix: Solid**

**Analysis Batch: 304476**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303850**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	10.92		10		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Antimony	ND		14.9		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Arsenic	ND		2.0		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Barium	ND		0.50		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Beryllium	ND		0.20		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Cadmium	ND		0.20		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Calcium	83.96		49.8		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Chromium	ND		0.50		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Cobalt	ND		0.50		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Copper	ND		1.0		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Iron	13.32		10		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Lead	ND		1.0		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Magnesium	33.64		19.9		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Manganese	0.462		0.20		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Nickel	ND		5.0		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Potassium	ND		29.9		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Selenium	ND		4.0		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Silver	ND		0.60		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Sodium	ND		139		mg/Kg		05/31/16 10:33	05/31/16 20:03	1

TestAmerica Buffalo



# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: MB 480-303850/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304476**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303850**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		6.0		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Vanadium	ND		0.50		mg/Kg		05/31/16 10:33	05/31/16 20:03	1
Zinc	ND		2.0		mg/Kg		05/31/16 10:33	05/31/16 20:03	1

**Lab Sample ID: LCSSRM 480-303850/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304476**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303850**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	7930	8798		mg/Kg		110.9	39.0 - 161.4
Antimony	105	69.86		mg/Kg		66.5	20.4 - 254.3
Arsenic	98.5	84.00		mg/Kg		85.3	69.3 - 145.2
Barium	308	257.2		mg/Kg		83.5	74.0 - 126.0
Beryllium	66.0	56.15		mg/Kg		85.1	73.6 - 126.4
Cadmium	146	127.1		mg/Kg		87.1	73.3 - 126.7
Calcium	6610	5650		mg/Kg		85.5	74.1 - 125.9
Chromium	182	155.7		mg/Kg		85.6	70.9 - 129.7
Cobalt	162	160.1		mg/Kg		98.8	74.1 - 125.3
Copper	106	90.98		mg/Kg		85.8	74.5 - 125.5
Iron	14400	14180		mg/Kg		98.5	35.6 - 163.9
Lead	130	124.8		mg/Kg		96.0	72.5 - 126.9
Magnesium	2640	2387		mg/Kg		90.4	64.4 - 136.0
Manganese	410	352.2		mg/Kg		85.9	76.3 - 123.9
Nickel	149	149.8		mg/Kg		100.5	73.2 - 126.8
Potassium	2550	2558		mg/Kg		100.3	60.8 - 138.8
Selenium	154	128.6		mg/Kg		83.5	67.5 - 132.5
Silver	40.9	33.46		mg/Kg		81.8	66.0 - 133.7
Sodium	2480	2295		mg/Kg		92.5	65.3 - 134.3
Thallium	175	175.4		mg/Kg		100.2	68.6 - 130.9
Vanadium	96.7	89.63		mg/Kg		92.7	64.4 - 135.5
Zinc	191	161.6		mg/Kg		84.6	69.6 - 130.4

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: 480-100681-5 MS**

**Matrix: Solid**

**Analysis Batch: 304476**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 303850**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Aluminum	8140	B F1 F2	2340	9283	F1	mg/Kg	☼	49	75 - 125	
Antimony	ND	F1 F2	46.8	36.50		mg/Kg	☼	78	75 - 125	
Arsenic	ND		46.8	44.02		mg/Kg	☼	91	75 - 125	
Barium	56.3	F1 F2	46.8	80.62	F1	mg/Kg	☼	52	75 - 125	
Beryllium	0.33		46.8	41.02		mg/Kg	☼	87	75 - 125	
Cadmium	0.37		46.8	42.22		mg/Kg	☼	89	75 - 125	
Calcium	58700	B	2340	54710	4	mg/Kg	☼	-172	75 - 125	
Chromium	11.1	F2	46.8	49.25		mg/Kg	☼	82	75 - 125	
Cobalt	4.7		46.8	49.61		mg/Kg	☼	96	75 - 125	
Copper	10		46.8	46.93		mg/Kg	☼	79	75 - 125	
Iron	11400	B F2	2340	10430	4	mg/Kg	☼	-40	75 - 125	
Lead	11.8		46.8	58.39		mg/Kg	☼	100	75 - 125	
Magnesium	26500	B	2340	27920	4	mg/Kg	☼	60	75 - 125	
Manganese	330	B F2	46.8	331.8	4	mg/Kg	☼	3	75 - 125	
Nickel	10.8	F2	46.8	52.02		mg/Kg	☼	88	75 - 125	
Potassium	2780	F1 F2	2340	4566		mg/Kg	☼	76	75 - 125	
Selenium	ND		46.8	42.99		mg/Kg	☼	92	75 - 125	
Silver	ND		11.7	10.97		mg/Kg	☼	94	75 - 125	
Sodium	264		2340	2558		mg/Kg	☼	98	75 - 125	
Thallium	ND		46.8	45.93		mg/Kg	☼	98	75 - 125	
Vanadium	18.9	F1 F2	46.8	59.87		mg/Kg	☼	87	75 - 125	
Zinc	61.4		46.8	108.2		mg/Kg	☼	100	75 - 125	

**Lab Sample ID: 480-100681-5 MSD**

**Matrix: Solid**

**Analysis Batch: 304476**

**Client Sample ID: RI SB-17 (4-6)**

**Prep Type: Total/NA**

**Prep Batch: 303850**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
Aluminum	8140	B F1 F2	2430	24310	F1 F2	mg/Kg	☼	665	75 - 125	89	20	
Antimony	ND	F1 F2	48.6	23.24	F1 F2	mg/Kg	☼	48	75 - 125	44	20	
Arsenic	ND		48.6	45.34		mg/Kg	☼	91	75 - 125	3	20	
Barium	56.3	F1 F2	48.6	178.6	F1 F2	mg/Kg	☼	252	75 - 125	76	20	
Beryllium	0.33		48.6	41.20		mg/Kg	☼	84	75 - 125	0	20	
Cadmium	0.37		48.6	42.32		mg/Kg	☼	86	75 - 125	0	20	
Calcium	58700	B	2430	56050	4	mg/Kg	☼	-110	75 - 125	2	20	
Chromium	11.1	F2	48.6	63.75	F2	mg/Kg	☼	108	75 - 125	26	20	
Cobalt	4.7		48.6	54.38		mg/Kg	☼	102	75 - 125	9	20	
Copper	10		48.6	54.95		mg/Kg	☼	92	75 - 125	16	20	
Iron	11400	B F2	2430	18550	4 F2	mg/Kg	☼	295	75 - 125	56	20	
Lead	11.8		48.6	64.34		mg/Kg	☼	108	75 - 125	10	20	
Magnesium	26500	B	2430	26550	4	mg/Kg	☼	2	75 - 125	5	20	
Manganese	330	B F2	48.6	410.9	4 F2	mg/Kg	☼	166	75 - 125	21	20	
Nickel	10.8	F2	48.6	64.11	F2	mg/Kg	☼	110	75 - 125	21	20	
Potassium	2780	F1 F2	2430	10580	F1 F2	mg/Kg	☼	321	75 - 125	79	20	
Selenium	ND		48.6	41.86		mg/Kg	☼	86	75 - 125	3	20	
Silver	ND		12.2	11.00		mg/Kg	☼	90	75 - 125	0	20	
Sodium	264		2440	2504		mg/Kg	☼	92	75 - 125	2	20	
Thallium	ND		48.6	45.83		mg/Kg	☼	94	75 - 125	0	20	

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-100681-5 MSD

Matrix: Solid

Analysis Batch: 304476

Client Sample ID: RI SB-17 (4-6)

Prep Type: Total/NA

Prep Batch: 303850

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Vanadium	18.9	F1 F2	48.6	82.28	F1 F2	mg/Kg	✖	130	75 - 125	32	20
Zinc	61.4		48.6	98.85		mg/Kg	✖	77	75 - 125	9	20

## Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-303860/1-A

Matrix: Solid

Analysis Batch: 304077

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 303860

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.019		mg/Kg		05/26/16 07:00	05/27/16 10:06	1

Lab Sample ID: LCSSRM 480-303860/2-A ^5

Matrix: Solid

Analysis Batch: 304077

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 303860

Analyte	Spike	LCSSRM	LCSSRM	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Mercury	7.10	6.56		mg/Kg		92.4	51.3 - 149.3

Lab Sample ID: 480-100681-5 MS

Matrix: Solid

Analysis Batch: 304077

Client Sample ID: RI SB-17 (4-6)

Prep Type: Total/NA

Prep Batch: 303860

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				Limits
Mercury	ND		0.405	0.388		mg/Kg	✖	96	80 - 120

Lab Sample ID: 480-100681-5 MSD

Matrix: Solid

Analysis Batch: 304077

Client Sample ID: RI SB-17 (4-6)

Prep Type: Total/NA

Prep Batch: 303860

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Mercury	ND		0.393	0.378		mg/Kg	✖	96	80 - 120	3	20

## Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-304090/1-A

Matrix: Solid

Analysis Batch: 304118

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 304090

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	ND		0.90		mg/Kg		05/27/16 14:08	05/27/16 14:54	1

Lab Sample ID: LCSSRM 480-304090/2-A

Matrix: Solid

Analysis Batch: 304118

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 304090

Analyte	Spike	LCSSRM	LCSSRM	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Cyanide, Total	39.6	45.83		mg/Kg		115.7	33.3 - 195.2

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Lab Sample ID: MB 480-304245/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304381**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304245**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.0		mg/Kg		05/30/16 13:50	05/31/16 11:42	1

**Lab Sample ID: LCSSRM 480-304245/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304381**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304245**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	39.6	37.81		mg/Kg		95.5	33.3 - 195.2

**Lab Sample ID: 480-100681-5 MS**  
**Matrix: Solid**  
**Analysis Batch: 304381**

**Client Sample ID: RI SB-17 (4-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 304245**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND	F2 F1	11.4	11.23		mg/Kg	✱	98	85 - 115

**Lab Sample ID: 480-100681-5 MSD**  
**Matrix: Solid**  
**Analysis Batch: 304381**

**Client Sample ID: RI SB-17 (4-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 304245**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND	F2 F1	11.7	18.27	F1 F2	mg/Kg	✱	156	85 - 115	48	15

**Lab Sample ID: 480-100681-13 MS**  
**Matrix: Solid**  
**Analysis Batch: 304381**

**Client Sample ID: RI SB-24 (4-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 304245**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		11.4	11.53		mg/Kg	✱	101	85 - 115

**Lab Sample ID: 480-100681-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304381**

**Client Sample ID: RI SB-12 (2-4)**  
**Prep Type: Total/NA**  
**Prep Batch: 304245**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	ND		ND		mg/Kg	✱	NC	15

**Lab Sample ID: 480-100681-12 DU**  
**Matrix: Solid**  
**Analysis Batch: 304381**

**Client Sample ID: RI SB-23 (2-4)**  
**Prep Type: Total/NA**  
**Prep Batch: 304245**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	ND		ND		mg/Kg	✱	NC	15

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## GC/MS VOA

### Analysis Batch: 303681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-6	RI SB-18 (2-4)	Total/NA	Solid	8260C	303699
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	8260C	303699
480-100681-8	BLIND DUP	Total/NA	Solid	8260C	303699
LCS 480-303699/1-A	Lab Control Sample	Total/NA	Solid	8260C	303699
MB 480-303699/2-A	Method Blank	Total/NA	Solid	8260C	303699

### Prep Batch: 303699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-6	RI SB-18 (2-4)	Total/NA	Solid	5035A	
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	5035A	
480-100681-8	BLIND DUP	Total/NA	Solid	5035A	
LCS 480-303699/1-A	Lab Control Sample	Total/NA	Solid	5035A	
MB 480-303699/2-A	Method Blank	Total/NA	Solid	5035A	

## GC/MS Semi VOA

### Prep Batch: 303732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1	RI SB-12 (2-4)	Total/NA	Solid	3550C	
480-100681-2	RI SB-13 (1-3)	Total/NA	Solid	3550C	
480-100681-3	RI SB-15 (6-8)	Total/NA	Solid	3550C	
480-100681-4	RI MW-2 (8-10)	Total/NA	Solid	3550C	
480-100681-5	RI SB-17 (4-6)	Total/NA	Solid	3550C	
480-100681-5 MS	RI SB-17 (4-6)	Total/NA	Solid	3550C	
480-100681-5 MSD	RI SB-17 (4-6)	Total/NA	Solid	3550C	
480-100681-6	RI SB-18 (2-4)	Total/NA	Solid	3550C	
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	3550C	
480-100681-8	BLIND DUP	Total/NA	Solid	3550C	
480-100681-9	RI SB-20 (4-6)	Total/NA	Solid	3550C	
480-100681-10	RI SB-21 (6-8)	Total/NA	Solid	3550C	
480-100681-11	RI SB-22 (8-10)	Total/NA	Solid	3550C	
480-100681-12	RI SB-23 (2-4)	Total/NA	Solid	3550C	
480-100681-13	RI SB-24 (4-6)	Total/NA	Solid	3550C	
LCS 480-303732/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-303732/1-A	Method Blank	Total/NA	Solid	3550C	

### Analysis Batch: 303993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1	RI SB-12 (2-4)	Total/NA	Solid	8270D	303732
480-100681-2	RI SB-13 (1-3)	Total/NA	Solid	8270D	303732
480-100681-3	RI SB-15 (6-8)	Total/NA	Solid	8270D	303732
480-100681-4	RI MW-2 (8-10)	Total/NA	Solid	8270D	303732
480-100681-5	RI SB-17 (4-6)	Total/NA	Solid	8270D	303732
480-100681-6	RI SB-18 (2-4)	Total/NA	Solid	8270D	303732
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	8270D	303732
480-100681-8	BLIND DUP	Total/NA	Solid	8270D	303732
480-100681-9	RI SB-20 (4-6)	Total/NA	Solid	8270D	303732
480-100681-10	RI SB-21 (6-8)	Total/NA	Solid	8270D	303732
480-100681-11	RI SB-22 (8-10)	Total/NA	Solid	8270D	303732
480-100681-12	RI SB-23 (2-4)	Total/NA	Solid	8270D	303732

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 303993 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-13	RI SB-24 (4-6)	Total/NA	Solid	8270D	303732
LCS 480-303732/2-A	Lab Control Sample	Total/NA	Solid	8270D	303732
MB 480-303732/1-A	Method Blank	Total/NA	Solid	8270D	303732

### Prep Batch: 304485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1 - RE	RI SB-12 (2-4)	Total/NA	Solid	3550C	
480-100681-2 - RE	RI SB-13 (1-3)	Total/NA	Solid	3550C	
480-100681-3 - RE	RI SB-15 (6-8)	Total/NA	Solid	3550C	
480-100681-4 - RE	RI MW-2 (8-10)	Total/NA	Solid	3550C	
480-100681-5 - RE	RI SB-17 (4-6)	Total/NA	Solid	3550C	
480-100681-5 MS - RE	RI SB-17 (4-6)	Total/NA	Solid	3550C	
480-100681-5 MSD - RE	RI SB-17 (4-6)	Total/NA	Solid	3550C	
480-100681-6 - RE	RI SB-18 (2-4)	Total/NA	Solid	3550C	
480-100681-7 - RE	RI SB-19 (2-4)	Total/NA	Solid	3550C	
480-100681-8 - RE	BLIND DUP	Total/NA	Solid	3550C	
480-100681-9 - RE	RI SB-20 (4-6)	Total/NA	Solid	3550C	
480-100681-10 - RE	RI SB-21 (6-8)	Total/NA	Solid	3550C	
480-100681-11 - RE	RI SB-22 (8-10)	Total/NA	Solid	3550C	
480-100681-12 - RE	RI SB-23 (2-4)	Total/NA	Solid	3550C	
480-100681-13 - RE	RI SB-24 (4-6)	Total/NA	Solid	3550C	
LCS 480-304485/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-304485/1-A	Method Blank	Total/NA	Solid	3550C	

### Analysis Batch: 304626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1 - RE	RI SB-12 (2-4)	Total/NA	Solid	8270D	304485
480-100681-2 - RE	RI SB-13 (1-3)	Total/NA	Solid	8270D	304485
480-100681-3 - RE	RI SB-15 (6-8)	Total/NA	Solid	8270D	304485
480-100681-4 - RE	RI MW-2 (8-10)	Total/NA	Solid	8270D	304485
480-100681-5 - RE	RI SB-17 (4-6)	Total/NA	Solid	8270D	304485
480-100681-5 MS - RE	RI SB-17 (4-6)	Total/NA	Solid	8270D	304485
480-100681-5 MSD - RE	RI SB-17 (4-6)	Total/NA	Solid	8270D	304485
480-100681-6 - RE	RI SB-18 (2-4)	Total/NA	Solid	8270D	304485
480-100681-7 - RE	RI SB-19 (2-4)	Total/NA	Solid	8270D	304485
480-100681-8 - RE	BLIND DUP	Total/NA	Solid	8270D	304485
480-100681-9 - RE	RI SB-20 (4-6)	Total/NA	Solid	8270D	304485
480-100681-10 - RE	RI SB-21 (6-8)	Total/NA	Solid	8270D	304485
480-100681-11 - RE	RI SB-22 (8-10)	Total/NA	Solid	8270D	304485
480-100681-12 - RE	RI SB-23 (2-4)	Total/NA	Solid	8270D	304485
480-100681-13 - RE	RI SB-24 (4-6)	Total/NA	Solid	8270D	304485
LCS 480-304485/2-A	Lab Control Sample	Total/NA	Solid	8270D	304485
MB 480-304485/1-A	Method Blank	Total/NA	Solid	8270D	304485

### Analysis Batch: 304925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-5 MS	RI SB-17 (4-6)	Total/NA	Solid	8270D	303732
480-100681-5 MSD	RI SB-17 (4-6)	Total/NA	Solid	8270D	303732

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## GC Semi VOA

### Prep Batch: 303825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1	RI SB-12 (2-4)	Total/NA	Solid	8151A	
480-100681-4	RI MW-2 (8-10)	Total/NA	Solid	8151A	
480-100681-5	RI SB-17 (4-6)	Total/NA	Solid	8151A	
480-100681-5 MS	RI SB-17 (4-6)	Total/NA	Solid	8151A	
480-100681-5 MSD	RI SB-17 (4-6)	Total/NA	Solid	8151A	
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	8151A	
480-100681-8	BLIND DUP	Total/NA	Solid	8151A	
480-100681-13	RI SB-24 (4-6)	Total/NA	Solid	8151A	
LCS 480-303825/2-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 480-303825/1-A	Method Blank	Total/NA	Solid	8151A	

### Prep Batch: 303838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1	RI SB-12 (2-4)	Total/NA	Solid	3550C	
480-100681-2	RI SB-13 (1-3)	Total/NA	Solid	3550C	
480-100681-3	RI SB-15 (6-8)	Total/NA	Solid	3550C	
480-100681-4	RI MW-2 (8-10)	Total/NA	Solid	3550C	
480-100681-5	RI SB-17 (4-6)	Total/NA	Solid	3550C	
480-100681-5 MS	RI SB-17 (4-6)	Total/NA	Solid	3550C	
480-100681-5 MSD	RI SB-17 (4-6)	Total/NA	Solid	3550C	
480-100681-6	RI SB-18 (2-4)	Total/NA	Solid	3550C	
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	3550C	
480-100681-8	BLIND DUP	Total/NA	Solid	3550C	
480-100681-9	RI SB-20 (4-6)	Total/NA	Solid	3550C	
480-100681-10	RI SB-21 (6-8)	Total/NA	Solid	3550C	
480-100681-11	RI SB-22 (8-10)	Total/NA	Solid	3550C	
480-100681-12	RI SB-23 (2-4)	Total/NA	Solid	3550C	
480-100681-13	RI SB-24 (4-6)	Total/NA	Solid	3550C	
LCS 480-303838/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-303838/1-A	Method Blank	Total/NA	Solid	3550C	

### Analysis Batch: 303915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1	RI SB-12 (2-4)	Total/NA	Solid	8082A	303838
480-100681-2	RI SB-13 (1-3)	Total/NA	Solid	8082A	303838
480-100681-3	RI SB-15 (6-8)	Total/NA	Solid	8082A	303838
480-100681-4	RI MW-2 (8-10)	Total/NA	Solid	8082A	303838
480-100681-5	RI SB-17 (4-6)	Total/NA	Solid	8082A	303838
480-100681-5 MS	RI SB-17 (4-6)	Total/NA	Solid	8082A	303838
480-100681-5 MSD	RI SB-17 (4-6)	Total/NA	Solid	8082A	303838
480-100681-6	RI SB-18 (2-4)	Total/NA	Solid	8082A	303838
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	8082A	303838
480-100681-8	BLIND DUP	Total/NA	Solid	8082A	303838
480-100681-9	RI SB-20 (4-6)	Total/NA	Solid	8082A	303838
480-100681-10	RI SB-21 (6-8)	Total/NA	Solid	8082A	303838
480-100681-11	RI SB-22 (8-10)	Total/NA	Solid	8082A	303838
480-100681-12	RI SB-23 (2-4)	Total/NA	Solid	8082A	303838
480-100681-13	RI SB-24 (4-6)	Total/NA	Solid	8082A	303838
LCS 480-303838/2-A	Lab Control Sample	Total/NA	Solid	8082A	303838
MB 480-303838/1-A	Method Blank	Total/NA	Solid	8082A	303838

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## GC Semi VOA (Continued)

### Analysis Batch: 304337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1	RI SB-12 (2-4)	Total/NA	Solid	8151A	303825
480-100681-4	RI MW-2 (8-10)	Total/NA	Solid	8151A	303825
480-100681-5	RI SB-17 (4-6)	Total/NA	Solid	8151A	303825
480-100681-5 MS	RI SB-17 (4-6)	Total/NA	Solid	8151A	303825
480-100681-5 MSD	RI SB-17 (4-6)	Total/NA	Solid	8151A	303825
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	8151A	303825
480-100681-8	BLIND DUP	Total/NA	Solid	8151A	303825
480-100681-13	RI SB-24 (4-6)	Total/NA	Solid	8151A	303825
LCS 480-303825/2-A	Lab Control Sample	Total/NA	Solid	8151A	303825
MB 480-303825/1-A	Method Blank	Total/NA	Solid	8151A	303825

### Prep Batch: 304674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1	RI SB-12 (2-4)	Total/NA	Solid	3550C	
480-100681-4	RI MW-2 (8-10)	Total/NA	Solid	3550C	
480-100681-5	RI SB-17 (4-6)	Total/NA	Solid	3550C	
480-100681-5 MS	RI SB-17 (4-6)	Total/NA	Solid	3550C	
480-100681-5 MSD	RI SB-17 (4-6)	Total/NA	Solid	3550C	
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	3550C	
480-100681-8	BLIND DUP	Total/NA	Solid	3550C	
480-100681-13	RI SB-24 (4-6)	Total/NA	Solid	3550C	
LCS 480-304674/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-304674/1-A	Method Blank	Total/NA	Solid	3550C	

### Analysis Batch: 304913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1	RI SB-12 (2-4)	Total/NA	Solid	8081B	304674
480-100681-4	RI MW-2 (8-10)	Total/NA	Solid	8081B	304674
480-100681-5	RI SB-17 (4-6)	Total/NA	Solid	8081B	304674
480-100681-5 MS	RI SB-17 (4-6)	Total/NA	Solid	8081B	304674
480-100681-5 MSD	RI SB-17 (4-6)	Total/NA	Solid	8081B	304674
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	8081B	304674
480-100681-8	BLIND DUP	Total/NA	Solid	8081B	304674
480-100681-13	RI SB-24 (4-6)	Total/NA	Solid	8081B	304674
LCS 480-304674/2-A	Lab Control Sample	Total/NA	Solid	8081B	304674
MB 480-304674/1-A	Method Blank	Total/NA	Solid	8081B	304674

## Metals

### Prep Batch: 303850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1	RI SB-12 (2-4)	Total/NA	Solid	3050B	
480-100681-2	RI SB-13 (1-3)	Total/NA	Solid	3050B	
480-100681-3	RI SB-15 (6-8)	Total/NA	Solid	3050B	
480-100681-4	RI MW-2 (8-10)	Total/NA	Solid	3050B	
480-100681-5	RI SB-17 (4-6)	Total/NA	Solid	3050B	
480-100681-5 MS	RI SB-17 (4-6)	Total/NA	Solid	3050B	
480-100681-5 MSD	RI SB-17 (4-6)	Total/NA	Solid	3050B	
480-100681-6	RI SB-18 (2-4)	Total/NA	Solid	3050B	
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	3050B	

TestAmerica Buffalo



# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Metals (Continued)

### Prep Batch: 303850 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-8	BLIND DUP	Total/NA	Solid	3050B	
480-100681-9	RI SB-20 (4-6)	Total/NA	Solid	3050B	
480-100681-10	RI SB-21 (6-8)	Total/NA	Solid	3050B	
480-100681-11	RI SB-22 (8-10)	Total/NA	Solid	3050B	
480-100681-12	RI SB-23 (2-4)	Total/NA	Solid	3050B	
480-100681-13	RI SB-24 (4-6)	Total/NA	Solid	3050B	
LCSSRM 480-303850/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-303850/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 303860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1	RI SB-12 (2-4)	Total/NA	Solid	7471B	
480-100681-2	RI SB-13 (1-3)	Total/NA	Solid	7471B	
480-100681-3	RI SB-15 (6-8)	Total/NA	Solid	7471B	
480-100681-4	RI MW-2 (8-10)	Total/NA	Solid	7471B	
480-100681-5	RI SB-17 (4-6)	Total/NA	Solid	7471B	
480-100681-5 MS	RI SB-17 (4-6)	Total/NA	Solid	7471B	
480-100681-5 MSD	RI SB-17 (4-6)	Total/NA	Solid	7471B	
480-100681-6	RI SB-18 (2-4)	Total/NA	Solid	7471B	
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	7471B	
480-100681-8	BLIND DUP	Total/NA	Solid	7471B	
480-100681-9	RI SB-20 (4-6)	Total/NA	Solid	7471B	
480-100681-10	RI SB-21 (6-8)	Total/NA	Solid	7471B	
480-100681-11	RI SB-22 (8-10)	Total/NA	Solid	7471B	
480-100681-12	RI SB-23 (2-4)	Total/NA	Solid	7471B	
480-100681-13	RI SB-24 (4-6)	Total/NA	Solid	7471B	
LCSSRM 480-303860/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	
MB 480-303860/1-A	Method Blank	Total/NA	Solid	7471B	

### Analysis Batch: 304077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1	RI SB-12 (2-4)	Total/NA	Solid	7471B	303860
480-100681-2	RI SB-13 (1-3)	Total/NA	Solid	7471B	303860
480-100681-3	RI SB-15 (6-8)	Total/NA	Solid	7471B	303860
480-100681-4	RI MW-2 (8-10)	Total/NA	Solid	7471B	303860
480-100681-5	RI SB-17 (4-6)	Total/NA	Solid	7471B	303860
480-100681-5 MS	RI SB-17 (4-6)	Total/NA	Solid	7471B	303860
480-100681-5 MSD	RI SB-17 (4-6)	Total/NA	Solid	7471B	303860
480-100681-6	RI SB-18 (2-4)	Total/NA	Solid	7471B	303860
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	7471B	303860
480-100681-8	BLIND DUP	Total/NA	Solid	7471B	303860
480-100681-9	RI SB-20 (4-6)	Total/NA	Solid	7471B	303860
480-100681-10	RI SB-21 (6-8)	Total/NA	Solid	7471B	303860
480-100681-11	RI SB-22 (8-10)	Total/NA	Solid	7471B	303860
480-100681-12	RI SB-23 (2-4)	Total/NA	Solid	7471B	303860
480-100681-13	RI SB-24 (4-6)	Total/NA	Solid	7471B	303860
LCSSRM 480-303860/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	303860
MB 480-303860/1-A	Method Blank	Total/NA	Solid	7471B	303860

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Metals (Continued)

### Analysis Batch: 304476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1	RI SB-12 (2-4)	Total/NA	Solid	6010C	303850
480-100681-2	RI SB-13 (1-3)	Total/NA	Solid	6010C	303850
480-100681-3	RI SB-15 (6-8)	Total/NA	Solid	6010C	303850
480-100681-4	RI MW-2 (8-10)	Total/NA	Solid	6010C	303850
480-100681-5	RI SB-17 (4-6)	Total/NA	Solid	6010C	303850
480-100681-5 MS	RI SB-17 (4-6)	Total/NA	Solid	6010C	303850
480-100681-5 MSD	RI SB-17 (4-6)	Total/NA	Solid	6010C	303850
480-100681-6	RI SB-18 (2-4)	Total/NA	Solid	6010C	303850
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	6010C	303850
480-100681-8	BLIND DUP	Total/NA	Solid	6010C	303850
480-100681-9	RI SB-20 (4-6)	Total/NA	Solid	6010C	303850
480-100681-10	RI SB-21 (6-8)	Total/NA	Solid	6010C	303850
480-100681-11	RI SB-22 (8-10)	Total/NA	Solid	6010C	303850
480-100681-12	RI SB-23 (2-4)	Total/NA	Solid	6010C	303850
480-100681-13	RI SB-24 (4-6)	Total/NA	Solid	6010C	303850
LCSSRM 480-303850/2-A	Lab Control Sample	Total/NA	Solid	6010C	303850
MB 480-303850/1-A	Method Blank	Total/NA	Solid	6010C	303850

## General Chemistry

### Analysis Batch: 303708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1	RI SB-12 (2-4)	Total/NA	Solid	Moisture	
480-100681-2	RI SB-13 (1-3)	Total/NA	Solid	Moisture	
480-100681-3	RI SB-15 (6-8)	Total/NA	Solid	Moisture	
480-100681-4	RI MW-2 (8-10)	Total/NA	Solid	Moisture	
480-100681-5	RI SB-17 (4-6)	Total/NA	Solid	Moisture	
480-100681-5 MS	RI SB-17 (4-6)	Total/NA	Solid	Moisture	
480-100681-5 MSD	RI SB-17 (4-6)	Total/NA	Solid	Moisture	
480-100681-6	RI SB-18 (2-4)	Total/NA	Solid	Moisture	
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	Moisture	
480-100681-8	BLIND DUP	Total/NA	Solid	Moisture	
480-100681-9	RI SB-20 (4-6)	Total/NA	Solid	Moisture	
480-100681-10	RI SB-21 (6-8)	Total/NA	Solid	Moisture	
480-100681-11	RI SB-22 (8-10)	Total/NA	Solid	Moisture	
480-100681-12	RI SB-23 (2-4)	Total/NA	Solid	Moisture	
480-100681-13	RI SB-24 (4-6)	Total/NA	Solid	Moisture	

### Prep Batch: 304090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-2	RI SB-13 (1-3)	Total/NA	Solid	9012B	
480-100681-3	RI SB-15 (6-8)	Total/NA	Solid	9012B	
480-100681-4	RI MW-2 (8-10)	Total/NA	Solid	9012B	
LCSSRM 480-304090/2-A	Lab Control Sample	Total/NA	Solid	9012B	
MB 480-304090/1-A	Method Blank	Total/NA	Solid	9012B	

### Analysis Batch: 304118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-2	RI SB-13 (1-3)	Total/NA	Solid	9012B	304090
480-100681-3	RI SB-15 (6-8)	Total/NA	Solid	9012B	304090

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## General Chemistry (Continued)

### Analysis Batch: 304118 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-4	RI MW-2 (8-10)	Total/NA	Solid	9012B	304090
LCSSRM 480-304090/2-A	Lab Control Sample	Total/NA	Solid	9012B	304090
MB 480-304090/1-A	Method Blank	Total/NA	Solid	9012B	304090

### Prep Batch: 304245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1	RI SB-12 (2-4)	Total/NA	Solid	9012B	
480-100681-1 DU	RI SB-12 (2-4)	Total/NA	Solid	9012B	
480-100681-5	RI SB-17 (4-6)	Total/NA	Solid	9012B	
480-100681-5 MS	RI SB-17 (4-6)	Total/NA	Solid	9012B	
480-100681-5 MSD	RI SB-17 (4-6)	Total/NA	Solid	9012B	
480-100681-6	RI SB-18 (2-4)	Total/NA	Solid	9012B	
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	9012B	
480-100681-8	BLIND DUP	Total/NA	Solid	9012B	
480-100681-9	RI SB-20 (4-6)	Total/NA	Solid	9012B	
480-100681-10	RI SB-21 (6-8)	Total/NA	Solid	9012B	
480-100681-11	RI SB-22 (8-10)	Total/NA	Solid	9012B	
480-100681-12	RI SB-23 (2-4)	Total/NA	Solid	9012B	
480-100681-12 DU	RI SB-23 (2-4)	Total/NA	Solid	9012B	
480-100681-13	RI SB-24 (4-6)	Total/NA	Solid	9012B	
480-100681-13 MS	RI SB-24 (4-6)	Total/NA	Solid	9012B	
LCSSRM 480-304245/2-A	Lab Control Sample	Total/NA	Solid	9012B	
MB 480-304245/1-A	Method Blank	Total/NA	Solid	9012B	

### Analysis Batch: 304381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100681-1	RI SB-12 (2-4)	Total/NA	Solid	9012B	304245
480-100681-1 DU	RI SB-12 (2-4)	Total/NA	Solid	9012B	304245
480-100681-5	RI SB-17 (4-6)	Total/NA	Solid	9012B	304245
480-100681-5 MS	RI SB-17 (4-6)	Total/NA	Solid	9012B	304245
480-100681-5 MSD	RI SB-17 (4-6)	Total/NA	Solid	9012B	304245
480-100681-6	RI SB-18 (2-4)	Total/NA	Solid	9012B	304245
480-100681-7	RI SB-19 (2-4)	Total/NA	Solid	9012B	304245
480-100681-8	BLIND DUP	Total/NA	Solid	9012B	304245
480-100681-9	RI SB-20 (4-6)	Total/NA	Solid	9012B	304245
480-100681-10	RI SB-21 (6-8)	Total/NA	Solid	9012B	304245
480-100681-11	RI SB-22 (8-10)	Total/NA	Solid	9012B	304245
480-100681-12	RI SB-23 (2-4)	Total/NA	Solid	9012B	304245
480-100681-12 DU	RI SB-23 (2-4)	Total/NA	Solid	9012B	304245
480-100681-13	RI SB-24 (4-6)	Total/NA	Solid	9012B	304245
480-100681-13 MS	RI SB-24 (4-6)	Total/NA	Solid	9012B	304245
LCSSRM 480-304245/2-A	Lab Control Sample	Total/NA	Solid	9012B	304245
MB 480-304245/1-A	Method Blank	Total/NA	Solid	9012B	304245

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Client Sample ID: RI SB-12 (2-4)

Lab Sample ID: 480-100681-1

Date Collected: 05/23/16 10:30

Matrix: Solid

Date Received: 05/25/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

## Client Sample ID: RI SB-12 (2-4)

Lab Sample ID: 480-100681-1

Date Collected: 05/23/16 10:30

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			303732	05/26/16 07:38	JLS	TAL BUF
Total/NA	Analysis	8270D		1	303993	05/27/16 14:17	CAV	TAL BUF
Total/NA	Prep	3550C	RE		304485	06/01/16 07:31	RJS	TAL BUF
Total/NA	Analysis	8270D	RE	1	304626	06/01/16 20:35	LMW	TAL BUF
Total/NA	Prep	3550C			304674	06/02/16 07:25	CAM	TAL BUF
Total/NA	Analysis	8081B		1	304913	06/03/16 11:26	MAN	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/26/16 22:49	KS	TAL BUF
Total/NA	Prep	8151A			303825	05/26/16 11:30	RMZ	TAL BUF
Total/NA	Analysis	8151A		1	304337	05/31/16 16:21	JMO	TAL BUF
Total/NA	Prep	3050B			303850	05/31/16 10:33	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	304476	05/31/16 12:23	LMH	TAL BUF
Total/NA	Prep	7471B			303860	05/26/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:10	JRK	TAL BUF
Total/NA	Prep	9012B			304245	05/30/16 13:50	MDL	TAL BUF
Total/NA	Analysis	9012B		1	304381	05/31/16 11:49	KMF	TAL BUF

## Client Sample ID: RI SB-13 (1-3)

Lab Sample ID: 480-100681-2

Date Collected: 05/23/16 13:00

Matrix: Solid

Date Received: 05/25/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

## Client Sample ID: RI SB-13 (1-3)

Lab Sample ID: 480-100681-2

Date Collected: 05/23/16 13:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			303732	05/26/16 07:38	JLS	TAL BUF
Total/NA	Analysis	8270D		1	303993	05/27/16 14:43	CAV	TAL BUF
Total/NA	Prep	3550C	RE		304485	06/01/16 07:31	RJS	TAL BUF
Total/NA	Analysis	8270D	RE	1	304626	06/01/16 21:01	LMW	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/26/16 23:09	KS	TAL BUF
Total/NA	Prep	3050B			303850	05/31/16 10:33	KJ1	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Client Sample ID: RI SB-13 (1-3)

Lab Sample ID: 480-100681-2

Date Collected: 05/23/16 13:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1	304476	05/31/16 12:26	LMH	TAL BUF
Total/NA	Prep	7471B			303860	05/26/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:11	JRK	TAL BUF
Total/NA	Prep	9012B			304090	05/27/16 14:08	ZRJ	TAL BUF
Total/NA	Analysis	9012B		1	304118	05/27/16 15:20	ZRJ	TAL BUF

## Client Sample ID: RI SB-15 (6-8)

Lab Sample ID: 480-100681-3

Date Collected: 05/23/16 12:00

Matrix: Solid

Date Received: 05/25/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

## Client Sample ID: RI SB-15 (6-8)

Lab Sample ID: 480-100681-3

Date Collected: 05/23/16 12:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			303732	05/26/16 07:38	JLS	TAL BUF
Total/NA	Analysis	8270D		1	303993	05/27/16 15:09	CAV	TAL BUF
Total/NA	Prep	3550C	RE		304485	06/01/16 07:31	RJS	TAL BUF
Total/NA	Analysis	8270D	RE	1	304626	06/01/16 21:28	LMW	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/26/16 23:24	KS	TAL BUF
Total/NA	Prep	3050B			303850	05/31/16 10:33	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	304476	05/31/16 12:30	LMH	TAL BUF
Total/NA	Prep	7471B			303860	05/26/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:13	JRK	TAL BUF
Total/NA	Prep	9012B			304090	05/27/16 14:08	ZRJ	TAL BUF
Total/NA	Analysis	9012B		1	304118	05/27/16 15:21	ZRJ	TAL BUF

## Client Sample ID: RI MW-2 (8-10)

Lab Sample ID: 480-100681-4

Date Collected: 05/23/16 14:20

Matrix: Solid

Date Received: 05/25/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI MW-2 (8-10)**

**Lab Sample ID: 480-100681-4**

Date Collected: 05/23/16 14:20

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			303732	05/26/16 07:38	JLS	TAL BUF
Total/NA	Analysis	8270D		1	303993	05/27/16 15:36	CAV	TAL BUF
Total/NA	Prep	3550C	RE		304485	06/01/16 07:31	RJS	TAL BUF
Total/NA	Analysis	8270D	RE	1	304626	06/01/16 21:54	LMW	TAL BUF
Total/NA	Prep	3550C			304674	06/02/16 07:25	CAM	TAL BUF
Total/NA	Analysis	8081B		1	304913	06/03/16 11:46	MAN	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/26/16 23:40	KS	TAL BUF
Total/NA	Prep	8151A			303825	05/26/16 11:30	RMZ	TAL BUF
Total/NA	Analysis	8151A		1	304337	05/31/16 16:51	JMO	TAL BUF
Total/NA	Prep	3050B			303850	05/31/16 10:33	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	304476	05/31/16 12:33	LMH	TAL BUF
Total/NA	Prep	7471B			303860	05/26/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:15	JRK	TAL BUF
Total/NA	Prep	9012B			304090	05/27/16 14:08	ZRJ	TAL BUF
Total/NA	Analysis	9012B		1	304118	05/27/16 15:23	ZRJ	TAL BUF

**Client Sample ID: RI SB-17 (4-6)**

**Lab Sample ID: 480-100681-5**

Date Collected: 05/24/16 10:30

Matrix: Solid

Date Received: 05/25/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

**Client Sample ID: RI SB-17 (4-6)**

**Lab Sample ID: 480-100681-5**

Date Collected: 05/24/16 10:30

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			303732	05/26/16 07:38	JLS	TAL BUF
Total/NA	Analysis	8270D		1	303993	05/27/16 16:02	CAV	TAL BUF
Total/NA	Prep	3550C	RE		304485	06/01/16 07:31	RJS	TAL BUF
Total/NA	Analysis	8270D	RE	1	304626	06/01/16 22:21	LMW	TAL BUF
Total/NA	Prep	3550C			304674	06/02/16 07:25	CAM	TAL BUF
Total/NA	Analysis	8081B		1	304913	06/03/16 11:07	MAN	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/26/16 23:56	KS	TAL BUF
Total/NA	Prep	8151A			303825	05/26/16 11:30	RMZ	TAL BUF
Total/NA	Analysis	8151A		1	304337	05/31/16 17:21	JMO	TAL BUF
Total/NA	Prep	3050B			303850	05/31/16 10:33	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	304476	05/31/16 12:37	LMH	TAL BUF
Total/NA	Prep	7471B			303860	05/26/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:17	JRK	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Client Sample ID: RI SB-17 (4-6)

Lab Sample ID: 480-100681-5

Date Collected: 05/24/16 10:30

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			304245	05/30/16 13:50	MDL	TAL BUF
Total/NA	Analysis	9012B		1	304381	05/31/16 11:52	KMF	TAL BUF

## Client Sample ID: RI SB-18 (2-4)

Lab Sample ID: 480-100681-6

Date Collected: 05/24/16 11:00

Matrix: Solid

Date Received: 05/25/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

## Client Sample ID: RI SB-18 (2-4)

Lab Sample ID: 480-100681-6

Date Collected: 05/24/16 11:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			303699	05/25/16 20:39	NMD1	TAL BUF
Total/NA	Analysis	8260C		1	303681	05/26/16 01:33	NMD1	TAL BUF
Total/NA	Prep	3550C			303732	05/26/16 07:38	JLS	TAL BUF
Total/NA	Analysis	8270D		1	303993	05/27/16 16:29	CAV	TAL BUF
Total/NA	Prep	3550C	RE		304485	06/01/16 07:31	RJS	TAL BUF
Total/NA	Analysis	8270D	RE	1	304626	06/01/16 22:47	LMW	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/27/16 00:12	KS	TAL BUF
Total/NA	Prep	3050B			303850	05/31/16 10:33	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	304476	05/31/16 13:04	LMH	TAL BUF
Total/NA	Prep	7471B			303860	05/26/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:25	JRK	TAL BUF
Total/NA	Prep	9012B			304245	05/30/16 13:50	MDL	TAL BUF
Total/NA	Analysis	9012B		1	304381	05/31/16 11:56	KMF	TAL BUF

## Client Sample ID: RI SB-19 (2-4)

Lab Sample ID: 480-100681-7

Date Collected: 05/24/16 12:00

Matrix: Solid

Date Received: 05/25/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

## Client Sample ID: RI SB-19 (2-4)

Lab Sample ID: 480-100681-7

Date Collected: 05/24/16 12:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			303699	05/25/16 20:39	NMD1	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Client Sample ID: RI SB-19 (2-4)

Lab Sample ID: 480-100681-7

Date Collected: 05/24/16 12:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	303681	05/26/16 01:58	NMD1	TAL BUF
Total/NA	Prep	3550C			303732	05/26/16 07:38	JLS	TAL BUF
Total/NA	Analysis	8270D		1	303993	05/27/16 16:56	CAV	TAL BUF
Total/NA	Prep	3550C	RE		304485	06/01/16 07:31	RJS	TAL BUF
Total/NA	Analysis	8270D	RE	1	304626	06/01/16 23:14	LMW	TAL BUF
Total/NA	Prep	3550C			304674	06/02/16 07:25	CAM	TAL BUF
Total/NA	Analysis	8081B		1	304913	06/03/16 12:06	MAN	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/27/16 00:28	KS	TAL BUF
Total/NA	Prep	8151A			303825	05/26/16 11:30	RMZ	TAL BUF
Total/NA	Analysis	8151A		1	304337	05/31/16 17:51	JMO	TAL BUF
Total/NA	Prep	3050B			303850	05/31/16 10:33	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	304476	05/31/16 13:07	LMH	TAL BUF
Total/NA	Prep	7471B			303860	05/26/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:27	JRK	TAL BUF
Total/NA	Prep	9012B			304245	05/30/16 13:50	MDL	TAL BUF
Total/NA	Analysis	9012B		1	304381	05/31/16 11:58	KMF	TAL BUF

## Client Sample ID: BLIND DUP

Lab Sample ID: 480-100681-8

Date Collected: 05/24/16 08:00

Matrix: Solid

Date Received: 05/25/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

## Client Sample ID: BLIND DUP

Lab Sample ID: 480-100681-8

Date Collected: 05/24/16 08:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			303699	05/25/16 20:39	NMD1	TAL BUF
Total/NA	Analysis	8260C		1	303681	05/26/16 02:24	NMD1	TAL BUF
Total/NA	Prep	3550C			303732	05/26/16 07:38	JLS	TAL BUF
Total/NA	Analysis	8270D		1	303993	05/27/16 17:22	CAV	TAL BUF
Total/NA	Prep	3550C	RE		304485	06/01/16 07:31	RJS	TAL BUF
Total/NA	Analysis	8270D	RE	1	304626	06/01/16 23:40	LMW	TAL BUF
Total/NA	Prep	3550C			304674	06/02/16 07:25	CAM	TAL BUF
Total/NA	Analysis	8081B		1	304913	06/03/16 12:25	MAN	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/27/16 00:44	KS	TAL BUF
Total/NA	Prep	8151A			303825	05/26/16 11:30	RMZ	TAL BUF
Total/NA	Analysis	8151A		1	304337	05/31/16 18:21	JMO	TAL BUF
Total/NA	Prep	3050B			303850	05/31/16 10:33	KJ1	TAL BUF

TestAmerica Buffalo



# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Client Sample ID: BLIND DUP

Lab Sample ID: 480-100681-8

Date Collected: 05/24/16 08:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1	304476	05/31/16 13:11	LMH	TAL BUF
Total/NA	Prep	7471B			303860	05/26/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:30	JRK	TAL BUF
Total/NA	Prep	9012B			304245	05/30/16 13:50	MDL	TAL BUF
Total/NA	Analysis	9012B		1	304381	05/31/16 11:59	KMF	TAL BUF

## Client Sample ID: RI SB-20 (4-6)

Lab Sample ID: 480-100681-9

Date Collected: 05/24/16 12:30

Matrix: Solid

Date Received: 05/25/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

## Client Sample ID: RI SB-20 (4-6)

Lab Sample ID: 480-100681-9

Date Collected: 05/24/16 12:30

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			303732	05/26/16 07:38	JLS	TAL BUF
Total/NA	Analysis	8270D		1	303993	05/27/16 17:48	CAV	TAL BUF
Total/NA	Prep	3550C	RE		304485	06/01/16 07:31	RJS	TAL BUF
Total/NA	Analysis	8270D	RE	1	304626	06/02/16 00:06	LMW	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/27/16 01:00	KS	TAL BUF
Total/NA	Prep	3050B			303850	05/31/16 10:33	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	304476	05/31/16 13:14	LMH	TAL BUF
Total/NA	Prep	7471B			303860	05/26/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:31	JRK	TAL BUF
Total/NA	Prep	9012B			304245	05/30/16 13:50	MDL	TAL BUF
Total/NA	Analysis	9012B		1	304381	05/31/16 12:01	KMF	TAL BUF

## Client Sample ID: RI SB-21 (6-8)

Lab Sample ID: 480-100681-10

Date Collected: 05/24/16 13:40

Matrix: Solid

Date Received: 05/25/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Client Sample ID: RI SB-21 (6-8)

## Lab Sample ID: 480-100681-10

Date Collected: 05/24/16 13:40

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			303732	05/26/16 07:38	JLS	TAL BUF
Total/NA	Analysis	8270D		1	303993	05/27/16 18:15	CAV	TAL BUF
Total/NA	Prep	3550C	RE		304485	06/01/16 07:31	RJS	TAL BUF
Total/NA	Analysis	8270D	RE	1	304626	06/02/16 00:33	LMW	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/27/16 01:16	KS	TAL BUF
Total/NA	Prep	3050B			303850	05/31/16 10:33	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	304476	05/31/16 13:18	LMH	TAL BUF
Total/NA	Prep	7471B			303860	05/26/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:32	JRK	TAL BUF
Total/NA	Prep	9012B			304245	05/30/16 13:50	MDL	TAL BUF
Total/NA	Analysis	9012B		1	304381	05/31/16 12:02	KMF	TAL BUF

## Client Sample ID: RI SB-22 (8-10)

## Lab Sample ID: 480-100681-11

Date Collected: 05/24/16 12:40

Matrix: Solid

Date Received: 05/25/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

## Client Sample ID: RI SB-22 (8-10)

## Lab Sample ID: 480-100681-11

Date Collected: 05/24/16 12:40

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			303732	05/26/16 07:38	JLS	TAL BUF
Total/NA	Analysis	8270D		1	303993	05/27/16 18:41	CAV	TAL BUF
Total/NA	Prep	3550C	RE		304485	06/01/16 07:31	RJS	TAL BUF
Total/NA	Analysis	8270D	RE	1	304626	06/02/16 00:59	LMW	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/27/16 01:32	KS	TAL BUF
Total/NA	Prep	3050B			303850	05/31/16 10:33	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	304476	05/31/16 13:21	LMH	TAL BUF
Total/NA	Prep	7471B			303860	05/26/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:34	JRK	TAL BUF
Total/NA	Prep	9012B			304245	05/30/16 13:50	MDL	TAL BUF
Total/NA	Analysis	9012B		1	304381	05/31/16 12:06	KMF	TAL BUF

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-23 (2-4)**

**Lab Sample ID: 480-100681-12**

Date Collected: 05/24/16 14:30

Matrix: Solid

Date Received: 05/25/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

**Client Sample ID: RI SB-23 (2-4)**

**Lab Sample ID: 480-100681-12**

Date Collected: 05/24/16 14:30

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			303732	05/26/16 07:38	JLS	TAL BUF
Total/NA	Analysis	8270D		1	303993	05/27/16 19:08	CAV	TAL BUF
Total/NA	Prep	3550C	RE		304485	06/01/16 07:31	RJS	TAL BUF
Total/NA	Analysis	8270D	RE	1	304626	06/02/16 01:26	LMW	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/27/16 01:48	KS	TAL BUF
Total/NA	Prep	3050B			303850	05/31/16 10:33	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	304476	05/31/16 13:24	LMH	TAL BUF
Total/NA	Prep	7471B			303860	05/26/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:36	JRK	TAL BUF
Total/NA	Prep	9012B			304245	05/30/16 13:50	MDL	TAL BUF
Total/NA	Analysis	9012B		1	304381	05/31/16 12:08	KMF	TAL BUF

**Client Sample ID: RI SB-24 (4-6)**

**Lab Sample ID: 480-100681-13**

Date Collected: 05/24/16 15:00

Matrix: Solid

Date Received: 05/25/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

**Client Sample ID: RI SB-24 (4-6)**

**Lab Sample ID: 480-100681-13**

Date Collected: 05/24/16 15:00

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			303732	05/26/16 07:38	JLS	TAL BUF
Total/NA	Analysis	8270D		1	303993	05/27/16 19:35	CAV	TAL BUF
Total/NA	Prep	3550C	RE		304485	06/01/16 07:31	RJS	TAL BUF
Total/NA	Analysis	8270D	RE	1	304626	06/02/16 01:52	LMW	TAL BUF
Total/NA	Prep	3550C			304674	06/02/16 07:25	CAM	TAL BUF
Total/NA	Analysis	8081B		1	304913	06/03/16 12:45	MAN	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/27/16 02:04	KS	TAL BUF
Total/NA	Prep	8151A			303825	05/26/16 11:30	RMZ	TAL BUF
Total/NA	Analysis	8151A		1	304337	05/31/16 18:51	JMO	TAL BUF
Total/NA	Prep	3050B			303850	05/31/16 10:33	KJ1	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

**Client Sample ID: RI SB-24 (4-6)**

**Lab Sample ID: 480-100681-13**

**Date Collected: 05/24/16 15:00**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 85.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1	304476	05/31/16 13:38	LMH	TAL BUF
Total/NA	Prep	7471B			303860	05/26/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:38	JRK	TAL BUF
Total/NA	Prep	9012B			304245	05/30/16 13:50	MDL	TAL BUF
Total/NA	Analysis	9012B		1	304381	05/31/16 12:11	KMF	TAL BUF

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Certification Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

## Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Method Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Sample Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100681-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-100681-1	RI SB-12 (2-4)	Solid	05/23/16 10:30	05/25/16 16:30
480-100681-2	RI SB-13 (1-3)	Solid	05/23/16 13:00	05/25/16 16:30
480-100681-3	RI SB-15 (6-8)	Solid	05/23/16 12:00	05/25/16 16:30
480-100681-4	RI MW-2 (8-10)	Solid	05/23/16 14:20	05/25/16 16:30
480-100681-5	RI SB-17 (4-6)	Solid	05/24/16 10:30	05/25/16 16:30
480-100681-6	RI SB-18 (2-4)	Solid	05/24/16 11:00	05/25/16 16:30
480-100681-7	RI SB-19 (2-4)	Solid	05/24/16 12:00	05/25/16 16:30
480-100681-8	BLIND DUP	Solid	05/24/16 08:00	05/25/16 16:30
480-100681-9	RI SB-20 (4-6)	Solid	05/24/16 12:30	05/25/16 16:30
480-100681-10	RI SB-21 (6-8)	Solid	05/24/16 13:40	05/25/16 16:30
480-100681-11	RI SB-22 (8-10)	Solid	05/24/16 12:40	05/25/16 16:30
480-100681-12	RI SB-23 (2-4)	Solid	05/24/16 14:30	05/25/16 16:30
480-100681-13	RI SB-24 (4-6)	Solid	05/24/16 15:00	05/25/16 16:30

# Chain of Custody Record

Temperature on Receipt \_\_\_\_\_

Drinking Water? Yes  No

# TestAmerica

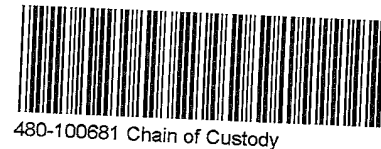
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client <b>Turnkey Environmental Restoration</b>		Project Manager <b>Chris Baron</b>		Date <b>5/24/2016</b>	Chain of Custody Number <b>290032</b>
Address <b>2558 Hamburg Turnpike</b>		Telephone Number (Area Code)/Fax Number <b>716-856-0229</b>		Lab Number	
City <b>Buffalo</b>	State <b>NY</b>	Zip Code <b>14218</b>	Site Contact <b>B. Fischer</b>	Page <b>1</b> of <b>1</b>	

Project Name and Location (State) <b>791 Washington St</b>		Carrier/Waybill Number		Analysis (Attach list if more space is needed)	
Contract/Purchase Order/Quote No. <b>DOOR TO DOOR/AAA/0092-016-001-002-002</b>		Matrix		Containers & Preservatives	

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	Containers & Preservatives					TEL SVOC	TEL Metals plus Cyanide	TEL PCBs	Pest	Herb	VOCs TEL VOCs	Special Instructions/ Conditions of Receipt	
								H2SO4	HNO3	HCl	NaOH	ZnAc2/NaOH								
R1 SB-12 (2-4)	5/23/16	10 <sup>30</sup>				X	X					X	X	X	X	X				* Encore for VOCs
R1 SB-13 (1-3)	"	13 <sup>00</sup>				X	X					X	X	X						
R1 SB-15 (6-8)	"	12 <sup>00</sup>				X	X					X	X							
R1 MW-2 (8-10)	"	14 <sup>20</sup>				X	X					X	X	X	X	X				
R1 SB-17 (4-6) (MC/MS)	5/24/16	10 <sup>30</sup>				X	X					X	X	X	X	X				
R1 SB-18 (2-4)	"	11 <sup>00</sup>				X	X					X	X				X			
R1 SB-19 (2-4)	"	12 <sup>00</sup>				X	X					X	X	X	X	X				
Blind Dup	"	8 <sup>00</sup>				X	X					X	X	X	X	X				
R1 SB-20 (4-6)	"	12 <sup>30</sup>				X	X					X	X							
R1 SB-21 (6-8)	"	13 <sup>40</sup>				X	X					X	X							
R1 SB-22 (8-10)	"	12 <sup>40</sup>				X	X					X	X							
R1 SB-23 (2-4)	"	14 <sup>30</sup>				X	X					X	X	X	X	X				
R1 SB-24 (4-6)	"	15 <sup>00</sup>				X	X					X	X	X	X	X				



Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	

Turn Around Time Required	QC Requirements (Specify)
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input checked="" type="checkbox"/> Other <b>Standard</b>	

1. Relinquished By <b>Chris Baron</b>	Date <b>5/25/16</b>	Time <b>1600</b>	1. Received By <b>Chris Baron</b>	Date <b>5/25/16</b>	Time <b>1600</b>
2. Relinquished By <b>Chris Baron</b>	Date <b>5/25/16</b>	Time <b>1630</b>	2. Received By <b>Michelle</b>	Date <b>5/25/16</b>	Time <b>1630</b>
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: **3.0, 2.8 #1**

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6/7/2016





## Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-100681-1

**Login Number: 100681**

**List Number: 1**

**Creator: Janish, Carl M**

**List Source: TestAmerica Buffalo**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	False	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BMTK
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-100685-1

Client Project/Site: Benchmark - 791 Washington St., Buffalo

Revision: 1

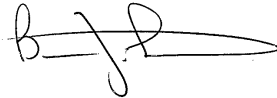
For:

Turnkey Environmental Restoration, LLC

2558 Hamburg Turnpike

Lackawanna, New York 14218

Attn: Mr. Christopher Z Boron



Authorized for release by:

6/3/2016 11:47:15 AM

Brian Fischer, Manager of Project Management

(716)504-9835

[brian.fischer@testamericainc.com](mailto:brian.fischer@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

### General Chemistry

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

**Job ID: 480-100685-1**

**Laboratory: TestAmerica Buffalo**

## Narrative

### Job Narrative 480-100685-1

#### Comments

Report revised to correct sample IDs ("1" to "I")

#### Receipt

The samples were received on 5/25/2016 4:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice.

#### GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-303681 recovered above the upper control limit for Carbon tetrachloride, Chloromethane, Trichlorofluoromethane and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: R1 MW-4 (0-2) (480-100685-1).

Method(s) 8260C: The method blank for preparation batch 480-303699 contained Methylene Chloride and Acetone above the reporting limit (RL). None of the samples associated with this method blank contained the target compounds over the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples were not performed. The following sample is impacted: R1 MW-4 (0-2) (480-100685-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-303734 and analytical batch 480-304364 was outside control limits. Sample matrix interference and non-homogeneity is suspected. The data has been qualified and reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-304364 recovered outside acceptance criteria, low biased, for Benzaldehyde. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. R1 MW-4 (0-2) (480-100685-1), R1 MW-3 (0-2) (480-100685-2) and R1 MW-6 (4-7) (480-100685-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method(s) 8082A: All primary data for analytical batch 303915 is reported from the ZB-5 column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 6010C: The Serial Dilution and Post Spike (480-100685-A-3-G PDS) and (480-100685-A-3-G SD) exceeded the quality control limits for Total Manganese. Sample matrix is suspected, therefore, no corrective action was necessary.

Method(s) 6010C: The Serial Dilution (480-100685-A-3-G SD) in batch 480-303852, exhibited results outside the quality control limits for Total Aluminum, Barium, Calcium, Chromium, Copper, Iron, Potassium, Magnesium, Lead, Vanadium, and Zinc. However, the Post Digestion Spike was compliant so no corrective action was necessary

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Client Sample ID: RI MW-4 (0-2)

## Lab Sample ID: 480-100685-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.2	J B	25	4.2	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	11	F1	4.9	0.63	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	4.2	J B	4.9	2.3	ug/Kg	1	☼	8260C	Total/NA
trans-1,2-Dichloroethene	8.1	F1	4.9	0.51	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	10		4.9	1.1	ug/Kg	1	☼	8260C	Total/NA
Aluminum	7840		12.4		mg/Kg	1	☼	6010C	Total/NA
Barium	55.9		0.62		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.30		0.25		mg/Kg	1	☼	6010C	Total/NA
Calcium	59400		61.8		mg/Kg	1	☼	6010C	Total/NA
Chromium	10.4		0.62		mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.5		0.62		mg/Kg	1	☼	6010C	Total/NA
Copper	8.7		1.2		mg/Kg	1	☼	6010C	Total/NA
Iron	10600		12.4		mg/Kg	1	☼	6010C	Total/NA
Lead	12.7		1.2		mg/Kg	1	☼	6010C	Total/NA
Magnesium	27500		24.7		mg/Kg	1	☼	6010C	Total/NA
Manganese	332		0.25		mg/Kg	1	☼	6010C	Total/NA
Nickel	9.4		6.2		mg/Kg	1	☼	6010C	Total/NA
Potassium	2830		37.1		mg/Kg	1	☼	6010C	Total/NA
Sodium	288		173		mg/Kg	1	☼	6010C	Total/NA
Vanadium	18.7		0.62		mg/Kg	1	☼	6010C	Total/NA
Zinc	60.1		2.5		mg/Kg	1	☼	6010C	Total/NA

## Client Sample ID: RI MW-3 (0-2)

## Lab Sample ID: 480-100685-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	13000		10.7		mg/Kg	1	☼	6010C	Total/NA
Barium	132		0.53		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.50		0.21		mg/Kg	1	☼	6010C	Total/NA
Calcium	58600		53.4		mg/Kg	1	☼	6010C	Total/NA
Chromium	16.0		0.53		mg/Kg	1	☼	6010C	Total/NA
Cobalt	7.3		0.53		mg/Kg	1	☼	6010C	Total/NA
Copper	12.0		1.1		mg/Kg	1	☼	6010C	Total/NA
Iron	14900		10.7		mg/Kg	1	☼	6010C	Total/NA
Lead	12.8		1.1		mg/Kg	1	☼	6010C	Total/NA
Magnesium	25600		21.4		mg/Kg	1	☼	6010C	Total/NA
Manganese	373		0.21		mg/Kg	1	☼	6010C	Total/NA
Nickel	15.9		5.3		mg/Kg	1	☼	6010C	Total/NA
Potassium	4650		32.0		mg/Kg	1	☼	6010C	Total/NA
Sodium	463		149		mg/Kg	1	☼	6010C	Total/NA
Vanadium	26.0		0.53		mg/Kg	1	☼	6010C	Total/NA
Zinc	51.8		2.1		mg/Kg	1	☼	6010C	Total/NA

## Client Sample ID: RI MW-6 (4-7)

## Lab Sample ID: 480-100685-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	75	J	200	30	ug/Kg	1	☼	8270D	Total/NA
Anthracene	180	J F2	200	50	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	370	F2 F1	200	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	300	F2 F1	200	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	380	F2 F1	200	32	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

**Client Sample ID: RI MW-6 (4-7) (Continued)**

**Lab Sample ID: 480-100685-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	170	J F2	200	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	170	J F2	200	26	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	85	J	200	69	ug/Kg	1	☼	8270D	Total/NA
Carbazole	83	J F2	200	24	ug/Kg	1	☼	8270D	Total/NA
Chrysene	350	F2 F1	200	45	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	51	J F2	200	24	ug/Kg	1	☼	8270D	Total/NA
Diethyl phthalate	42	J	200	26	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	920	F2 F1	200	21	ug/Kg	1	☼	8270D	Total/NA
Fluorene	67	J F2	200	24	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	150	J F2	200	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	840	F2 F1	200	30	ug/Kg	1	☼	8270D	Total/NA
Pyrene	770	F2 F1	200	24	ug/Kg	1	☼	8270D	Total/NA
Aluminum	3980	F1	12.6		mg/Kg	1	☼	6010C	Total/NA
Barium	25.7	F1	0.63		mg/Kg	1	☼	6010C	Total/NA
Calcium	55900		63.0		mg/Kg	1	☼	6010C	Total/NA
Chromium	8.7		0.63		mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.5		0.63		mg/Kg	1	☼	6010C	Total/NA
Copper	7.1		1.3		mg/Kg	1	☼	6010C	Total/NA
Iron	7180	F1	12.6		mg/Kg	1	☼	6010C	Total/NA
Lead	13.1	F1	1.3		mg/Kg	1	☼	6010C	Total/NA
Magnesium	26700		25.2		mg/Kg	1	☼	6010C	Total/NA
Manganese	281		0.25		mg/Kg	1	☼	6010C	Total/NA
Potassium	1310	F1	37.8		mg/Kg	1	☼	6010C	Total/NA
Sodium	231		176		mg/Kg	1	☼	6010C	Total/NA
Vanadium	12.4		0.63		mg/Kg	1	☼	6010C	Total/NA
Zinc	58.7	F1	2.5		mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

**Client Sample ID: RI MW-4 (0-2)**

**Lab Sample ID: 480-100685-1**

**Date Collected: 05/25/16 09:45**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 85.7**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.36	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
1,1,2,2-Tetrachloroethane	ND	F1	4.9	0.80	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
1,1,2-Trichloroethane	ND	F1	4.9	0.64	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
1,1-Dichloroethane	ND		4.9	0.60	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
1,2,4-Trichlorobenzene	ND	F1	4.9	0.30	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
1,2-Dibromo-3-Chloropropane	ND	F1	4.9	2.5	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
1,2-Dibromoethane	ND	F1	4.9	0.63	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
1,2-Dichlorobenzene	ND	F1	4.9	0.39	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
1,2-Dichloroethane	ND		4.9	0.25	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
1,2-Dichloropropane	ND		4.9	2.5	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
1,3-Dichlorobenzene	ND	F1	4.9	0.25	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
1,4-Dichlorobenzene	ND	F1	4.9	0.69	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
2-Butanone (MEK)	ND	F1	25	1.8	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
4-Methyl-2-pentanone (MIBK)	ND	F1	25	1.6	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
<b>Acetone</b>	<b>4.2</b>	<b>J B</b>	25	4.2	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Benzene	ND		4.9	0.24	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Bromodichloromethane	ND		4.9	0.66	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Bromoform	ND	F1	4.9	2.5	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Bromomethane	ND		4.9	0.44	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Carbon disulfide	ND		4.9	2.5	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Carbon tetrachloride	ND		4.9	0.48	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Chlorobenzene	ND	F1	4.9	0.65	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Chloroethane	ND		4.9	1.1	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Chloroform	ND		4.9	0.30	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Chloromethane	ND		4.9	0.30	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
<b>cis-1,2-Dichloroethene</b>	<b>11</b>	<b>F1</b>	4.9	0.63	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
cis-1,3-Dichloropropene	ND	F1	4.9	0.71	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Cyclohexane	ND		4.9	0.69	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Dibromochloromethane	ND		4.9	0.63	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Dichlorodifluoromethane	ND		4.9	0.41	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Ethylbenzene	ND	F1	4.9	0.34	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Isopropylbenzene	ND		4.9	0.74	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Methyl acetate	ND		4.9	3.0	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Methyl tert-butyl ether	ND		4.9	0.48	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Methylcyclohexane	ND		4.9	0.75	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
<b>Methylene Chloride</b>	<b>4.2</b>	<b>J B</b>	4.9	2.3	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Styrene	ND	F1	4.9	0.25	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Tetrachloroethene	ND	F1	4.9	0.66	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Toluene	ND	F1	4.9	0.37	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
<b>trans-1,2-Dichloroethene</b>	<b>8.1</b>	<b>F1</b>	4.9	0.51	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
trans-1,3-Dichloropropene	ND	F1	4.9	2.2	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
<b>Trichloroethene</b>	<b>10</b>		4.9	1.1	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Trichlorofluoromethane	ND		4.9	0.47	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Vinyl chloride	ND		4.9	0.60	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1
Xylenes, Total	ND	F1	9.9	0.83	ug/Kg	☼	05/25/16 20:39	05/26/16 02:50	1

TestAmerica Buffalo



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

**Client Sample ID: RI MW-4 (0-2)**

**Lab Sample ID: 480-100685-1**

**Date Collected: 05/25/16 09:45**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 85.7**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 126	05/25/16 20:39	05/26/16 02:50	1
4-Bromofluorobenzene (Surr)	108		72 - 126	05/25/16 20:39	05/26/16 02:50	1
Dibromofluoromethane (Surr)	108		60 - 140	05/25/16 20:39	05/26/16 02:50	1
Toluene-d8 (Surr)	105		71 - 125	05/25/16 20:39	05/26/16 02:50	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
2,4-Dinitrophenol	ND		1900	910	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
2-Methylphenol	ND		200	23	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
2-Nitroaniline	ND		390	29	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
3,3'-Dichlorobenzidine	ND		390	230	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
3-Nitroaniline	ND		390	55	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
4-Methylphenol	ND		390	23	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
4-Nitroaniline	ND		390	100	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Acenaphthene	ND		200	29	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Acenaphthylene	ND		200	26	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Acetophenone	ND		200	27	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Anthracene	ND		200	49	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Atrazine	ND		200	69	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Benzaldehyde	ND		200	160	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Bis(2-ethylhexyl) phthalate	ND		200	68	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Caprolactam	ND		200	60	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Carbazole	ND		200	23	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Chrysene	ND		200	44	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

**Client Sample ID: RI MW-4 (0-2)**

**Lab Sample ID: 480-100685-1**

**Date Collected: 05/25/16 09:45**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 85.7**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Dibenzofuran	ND		200	23	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Fluoranthene	ND		200	21	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Fluorene	ND		200	23	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Hexachloroethane	ND		200	26	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Isophorone	ND		200	42	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Naphthalene	ND		200	26	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Nitrobenzene	ND		200	22	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Phenanthrene	ND		200	29	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Phenol	ND		200	30	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1
Pyrene	ND		200	23	ug/Kg	☼	05/26/16 07:45	05/31/16 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	67		34 - 132	05/26/16 07:45	05/31/16 14:54	1
Phenol-d5 (Surr)	68		11 - 120	05/26/16 07:45	05/31/16 14:54	1
p-Terphenyl-d14 (Surr)	74		65 - 153	05/26/16 07:45	05/31/16 14:54	1
2,4,6-Tribromophenol (Surr)	68		39 - 146	05/26/16 07:45	05/31/16 14:54	1
2-Fluorobiphenyl	71		37 - 120	05/26/16 07:45	05/31/16 14:54	1
2-Fluorophenol (Surr)	67		18 - 120	05/26/16 07:45	05/31/16 14:54	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	☼	05/26/16 12:03	05/27/16 02:36	1
PCB-1221	ND		0.25	0.049	mg/Kg	☼	05/26/16 12:03	05/27/16 02:36	1
PCB-1232	ND		0.25	0.049	mg/Kg	☼	05/26/16 12:03	05/27/16 02:36	1
PCB-1242	ND		0.25	0.049	mg/Kg	☼	05/26/16 12:03	05/27/16 02:36	1
PCB-1248	ND		0.25	0.049	mg/Kg	☼	05/26/16 12:03	05/27/16 02:36	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	05/26/16 12:03	05/27/16 02:36	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	05/26/16 12:03	05/27/16 02:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	113		60 - 154	05/26/16 12:03	05/27/16 02:36	1
Tetrachloro-m-xylene	105		60 - 154	05/26/16 12:03	05/27/16 02:36	1
DCB Decachlorobiphenyl	127		65 - 174	05/26/16 12:03	05/27/16 02:36	1
DCB Decachlorobiphenyl	116		65 - 174	05/26/16 12:03	05/27/16 02:36	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7840		12.4		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

**Client Sample ID: RI MW-4 (0-2)**

**Lab Sample ID: 480-100685-1**

**Date Collected: 05/25/16 09:45**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 85.7**

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		18.5		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
Arsenic	ND		2.5		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
<b>Barium</b>	<b>55.9</b>		0.62		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
<b>Beryllium</b>	<b>0.30</b>		0.25		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
Cadmium	ND		0.25		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
<b>Calcium</b>	<b>59400</b>		61.8		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
<b>Chromium</b>	<b>10.4</b>		0.62		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
<b>Cobalt</b>	<b>4.5</b>		0.62		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
<b>Copper</b>	<b>8.7</b>		1.2		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
<b>Iron</b>	<b>10600</b>		12.4		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
<b>Lead</b>	<b>12.7</b>		1.2		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
<b>Magnesium</b>	<b>27500</b>		24.7		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
<b>Manganese</b>	<b>332</b>		0.25		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
<b>Nickel</b>	<b>9.4</b>		6.2		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
<b>Potassium</b>	<b>2830</b>		37.1		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
Selenium	ND		4.9		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
Silver	ND		0.74		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
<b>Sodium</b>	<b>288</b>		173		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
Thallium	ND		7.4		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
<b>Vanadium</b>	<b>18.7</b>		0.62		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1
<b>Zinc</b>	<b>60.1</b>		2.5		mg/Kg	☼	05/31/16 10:33	05/31/16 11:12	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.024		mg/Kg	☼	05/27/16 07:00	05/27/16 10:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.2		mg/Kg	☼	05/30/16 13:50	05/31/16 12:15	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

**Client Sample ID: RI MW-3 (0-2)**

**Lab Sample ID: 480-100685-2**

**Date Collected: 05/25/16 10:30**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 85.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	28	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
2,4-Dinitrophenol	ND		1900	890	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
2,4-Dinitrotoluene	ND		190	40	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
2-Methylphenol	ND		190	23	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
3,3'-Dichlorobenzidine	ND		370	230	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
3-Nitroaniline	ND		370	53	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
4-Chloro-3-methylphenol	ND		190	48	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
4-Chloroaniline	ND		190	48	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
4-Methylphenol	ND		370	23	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
4-Nitroaniline	ND		370	100	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Acenaphthene	ND		190	28	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Acenaphthylene	ND		190	25	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Acetophenone	ND		190	26	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Anthracene	ND		190	48	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Atrazine	ND		190	67	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Benzaldehyde	ND		190	150	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Benzo[b]fluoranthene	ND		190	31	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Bis(2-ethylhexyl) phthalate	ND		190	66	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Caprolactam	ND		190	58	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Carbazole	ND		190	23	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Chrysene	ND		190	43	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Dibenzofuran	ND		190	23	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

**Client Sample ID: RI MW-3 (0-2)**

**Lab Sample ID: 480-100685-2**

**Date Collected: 05/25/16 10:30**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 85.8**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		190	20	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Fluorene	ND		190	23	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Hexachloroethane	ND		190	25	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Isophorone	ND		190	41	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Naphthalene	ND		190	25	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Nitrobenzene	ND		190	22	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Phenanthrene	ND		190	28	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Phenol	ND		190	29	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1
Pyrene	ND		190	23	ug/Kg	☼	05/26/16 07:45	05/31/16 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	68		34 - 132	05/26/16 07:45	05/31/16 15:21	1
Phenol-d5 (Surr)	69		11 - 120	05/26/16 07:45	05/31/16 15:21	1
p-Terphenyl-d14 (Surr)	78		65 - 153	05/26/16 07:45	05/31/16 15:21	1
2,4,6-Tribromophenol (Surr)	71		39 - 146	05/26/16 07:45	05/31/16 15:21	1
2-Fluorobiphenyl	72		37 - 120	05/26/16 07:45	05/31/16 15:21	1
2-Fluorophenol (Surr)	67		18 - 120	05/26/16 07:45	05/31/16 15:21	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.039	mg/Kg	☼	05/26/16 12:03	05/27/16 02:52	1
PCB-1221	ND		0.20	0.039	mg/Kg	☼	05/26/16 12:03	05/27/16 02:52	1
PCB-1232	ND		0.20	0.039	mg/Kg	☼	05/26/16 12:03	05/27/16 02:52	1
PCB-1242	ND		0.20	0.039	mg/Kg	☼	05/26/16 12:03	05/27/16 02:52	1
PCB-1248	ND		0.20	0.039	mg/Kg	☼	05/26/16 12:03	05/27/16 02:52	1
PCB-1254	ND		0.20	0.093	mg/Kg	☼	05/26/16 12:03	05/27/16 02:52	1
PCB-1260	ND		0.20	0.093	mg/Kg	☼	05/26/16 12:03	05/27/16 02:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	124		60 - 154	05/26/16 12:03	05/27/16 02:52	1
Tetrachloro-m-xylene	106		60 - 154	05/26/16 12:03	05/27/16 02:52	1
DCB Decachlorobiphenyl	139		65 - 174	05/26/16 12:03	05/27/16 02:52	1
DCB Decachlorobiphenyl	118		65 - 174	05/26/16 12:03	05/27/16 02:52	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>13000</b>		10.7		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Antimony	ND		16.0		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Arsenic	ND		2.1		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
<b>Barium</b>	<b>132</b>		0.53		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
<b>Beryllium</b>	<b>0.50</b>		0.21		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Cadmium	ND		0.21		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
<b>Calcium</b>	<b>58600</b>		53.4		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

**Client Sample ID: RI MW-3 (0-2)**

**Lab Sample ID: 480-100685-2**

**Date Collected: 05/25/16 10:30**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 85.8**

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	16.0		0.53		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Cobalt	7.3		0.53		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Copper	12.0		1.1		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Iron	14900		10.7		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Lead	12.8		1.1		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Magnesium	25600		21.4		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Manganese	373		0.21		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Nickel	15.9		5.3		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Potassium	4650		32.0		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Selenium	ND		4.3		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Silver	ND		0.64		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Sodium	463		149		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Thallium	ND		6.4		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Vanadium	26.0		0.53		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1
Zinc	51.8		2.1		mg/Kg	☼	05/31/16 10:33	05/31/16 11:15	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.023		mg/Kg	☼	05/27/16 07:00	05/27/16 10:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1		mg/Kg	☼	05/30/16 13:50	05/31/16 12:14	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

**Client Sample ID: RI MW-6 (4-7)**

**Lab Sample ID: 480-100685-3**

**Date Collected: 05/25/16 13:30**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 82.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
2-Methylphenol	ND		200	24	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
4-Methylphenol	ND		390	24	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
<b>Acenaphthene</b>	<b>75</b>	<b>J</b>	200	30	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Acenaphthylene	ND		200	26	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Acetophenone	ND		200	27	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
<b>Anthracene</b>	<b>180</b>	<b>J F2</b>	200	50	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Atrazine	ND		200	70	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Benzaldehyde	ND		200	160	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
<b>Benzo[a]anthracene</b>	<b>370</b>	<b>F2 F1</b>	200	20	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
<b>Benzo[a]pyrene</b>	<b>300</b>	<b>F2 F1</b>	200	30	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
<b>Benzo[b]fluoranthene</b>	<b>380</b>	<b>F2 F1</b>	200	32	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
<b>Benzo[g,h,i]perylene</b>	<b>170</b>	<b>J F2</b>	200	21	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
<b>Benzo[k]fluoranthene</b>	<b>170</b>	<b>J F2</b>	200	26	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>85</b>	<b>J</b>	200	69	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Caprolactam	ND		200	61	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
<b>Carbazole</b>	<b>83</b>	<b>J F2</b>	200	24	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
<b>Chrysene</b>	<b>350</b>	<b>F2 F1</b>	200	45	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Dibenz(a,h)anthracene	ND	F2	200	36	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
<b>Dibenzofuran</b>	<b>51</b>	<b>J F2</b>	200	24	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
<b>Diethyl phthalate</b>	<b>42</b>	<b>J</b>	200	26	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

**Client Sample ID: RI MW-6 (4-7)**

**Lab Sample ID: 480-100685-3**

Date Collected: 05/25/16 13:30

Matrix: Solid

Date Received: 05/25/16 16:30

Percent Solids: 82.6

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	920	F2 F1	200	21	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Fluorene	67	J F2	200	24	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Hexachloroethane	ND		200	26	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Indeno[1,2,3-cd]pyrene	150	J F2	200	25	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Isophorone	ND		200	43	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Naphthalene	ND		200	26	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Nitrobenzene	ND		200	23	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Phenanthrene	840	F2 F1	200	30	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Phenol	ND		200	31	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1
Pyrene	770	F2 F1	200	24	ug/Kg	☼	05/26/16 07:45	05/31/16 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	46		34 - 132	05/26/16 07:45	05/31/16 15:48	1
Phenol-d5 (Surr)	32		11 - 120	05/26/16 07:45	05/31/16 15:48	1
p-Terphenyl-d14 (Surr)	77		65 - 153	05/26/16 07:45	05/31/16 15:48	1
2,4,6-Tribromophenol (Surr)	62		39 - 146	05/26/16 07:45	05/31/16 15:48	1
2-Fluorobiphenyl	58		37 - 120	05/26/16 07:45	05/31/16 15:48	1
2-Fluorophenol (Surr)	22		18 - 120	05/26/16 07:45	05/31/16 15:48	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.041	mg/Kg	☼	05/26/16 12:03	05/27/16 03:08	1
PCB-1221	ND		0.21	0.041	mg/Kg	☼	05/26/16 12:03	05/27/16 03:08	1
PCB-1232	ND		0.21	0.041	mg/Kg	☼	05/26/16 12:03	05/27/16 03:08	1
PCB-1242	ND		0.21	0.041	mg/Kg	☼	05/26/16 12:03	05/27/16 03:08	1
PCB-1248	ND		0.21	0.041	mg/Kg	☼	05/26/16 12:03	05/27/16 03:08	1
PCB-1254	ND		0.21	0.099	mg/Kg	☼	05/26/16 12:03	05/27/16 03:08	1
PCB-1260	ND		0.21	0.099	mg/Kg	☼	05/26/16 12:03	05/27/16 03:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	108		60 - 154	05/26/16 12:03	05/27/16 03:08	1
Tetrachloro-m-xylene	100		60 - 154	05/26/16 12:03	05/27/16 03:08	1
DCB Decachlorobiphenyl	123		65 - 174	05/26/16 12:03	05/27/16 03:08	1
DCB Decachlorobiphenyl	110		65 - 174	05/26/16 12:03	05/27/16 03:08	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3980	F1	12.6		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Antimony	ND		18.9		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Arsenic	ND		2.5		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Barium	25.7	F1	0.63		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Beryllium	ND		0.25		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Cadmium	ND		0.25		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Calcium	55900		63.0		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

**Client Sample ID: RI MW-6 (4-7)**

**Lab Sample ID: 480-100685-3**

**Date Collected: 05/25/16 13:30**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 82.6**

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	8.7		0.63		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Cobalt	2.5		0.63		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Copper	7.1		1.3		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Iron	7180	F1	12.6		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Lead	13.1	F1	1.3		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Magnesium	26700		25.2		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Manganese	281		0.25		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Nickel	ND		6.3		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Potassium	1310	F1	37.8		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Selenium	ND		5.0		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Silver	ND		0.76		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Sodium	231		176		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Thallium	ND		7.6		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Vanadium	12.4		0.63		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1
Zinc	58.7	F1	2.5		mg/Kg	☼	05/31/16 10:33	05/31/16 11:19	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.023		mg/Kg	☼	05/27/16 07:00	05/27/16 10:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	F2	1.0		mg/Kg	☼	06/01/16 14:55	06/02/16 11:34	1

# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-100685-1	RI MW-4 (0-2)	105	108	108	105
480-100685-1 MS	RI MW-4 (0-2)	94	111	108	106
480-100685-1 MSD	RI MW-4 (0-2)	96	115	109	106
LCS 480-303699/1-A	Lab Control Sample	103	118	110	104
MB 480-303699/2-A	Method Blank	107	115	112	103

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane (Surr)  
 TOL = Toluene-d8 (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (34-132)	PHL (11-120)	TPH (65-153)	TBP (39-146)	FBP (37-120)	2FP (18-120)
480-100685-1	RI MW-4 (0-2)	67	68	74	68	71	67
480-100685-2	RI MW-3 (0-2)	68	69	78	71	72	67
480-100685-3	RI MW-6 (4-7)	46	32	77	62	58	22
480-100685-3 MS	RI MW-6 (4-7)	70	70	80	81	77	68
480-100685-3 MSD	RI MW-6 (4-7)	71	72	76	81	76	71
LCS 480-303734/2-A	Lab Control Sample	70	67	78	78	75	65
MB 480-303734/1-A	Method Blank	70	70	80	67	74	68

### Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)  
 PHL = Phenol-d5 (Surr)  
 TPH = p-Terphenyl-d14 (Surr)  
 TBP = 2,4,6-Tribromophenol (Surr)  
 FBP = 2-Fluorobiphenyl  
 2FP = 2-Fluorophenol (Surr)

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (60-154)	TCX2 (60-154)	DCB1 (65-174)	DCB2 (65-174)
480-100685-1	RI MW-4 (0-2)	113	105	127	116
480-100685-2	RI MW-3 (0-2)	124	106	139	118
480-100685-3	RI MW-6 (4-7)	108	100	123	110
480-100685-3 MS	RI MW-6 (4-7)	133	122	144	129
480-100685-3 MSD	RI MW-6 (4-7)	119	114	127	117
LCS 480-303838/2-A	Lab Control Sample	131	113	138	118
MB 480-303838/1-A	Method Blank	116	104	125	108

### Surrogate Legend

TCX = Tetrachloro-m-xylene

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# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

DCB = DCB Decachlorobiphenyl

1

2

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 480-303699/2-A**

**Matrix: Solid**

**Analysis Batch: 303681**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303699**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.35	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.79	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,1,2-Trichloroethane	ND		4.9	0.63	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,1-Dichloroethane	ND		4.9	0.60	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.4	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,2-Dichlorobenzene	ND		4.9	0.38	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,2-Dichloroethane	ND		4.9	0.25	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,2-Dichloropropane	ND		4.9	2.4	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
1,4-Dichlorobenzene	ND		4.9	0.68	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
2-Butanone (MEK)	ND		24	1.8	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
2-Hexanone	ND		24	2.4	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
4-Methyl-2-pentanone (MIBK)	ND		24	1.6	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Acetone	16.1	J	24	4.1	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Benzene	ND		4.9	0.24	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Bromodichloromethane	ND		4.9	0.65	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Bromoform	ND		4.9	2.4	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Bromomethane	ND		4.9	0.44	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Carbon disulfide	ND		4.9	2.4	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Carbon tetrachloride	ND		4.9	0.47	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Chlorobenzene	ND		4.9	0.64	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Chloroethane	ND		4.9	1.1	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Chloroform	ND		4.9	0.30	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Chloromethane	ND		4.9	0.29	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
cis-1,2-Dichloroethene	ND		4.9	0.63	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
cis-1,3-Dichloropropene	ND		4.9	0.70	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Cyclohexane	ND		4.9	0.68	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Dibromochloromethane	ND		4.9	0.63	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Dichlorodifluoromethane	ND		4.9	0.40	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Ethylbenzene	ND		4.9	0.34	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Isopropylbenzene	ND		4.9	0.74	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Methyl acetate	ND		4.9	2.9	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Methyl tert-butyl ether	ND		4.9	0.48	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Methylcyclohexane	ND		4.9	0.74	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Methylene Chloride	5.93		4.9	2.2	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Styrene	ND		4.9	0.24	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Tetrachloroethene	ND		4.9	0.66	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Toluene	ND		4.9	0.37	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
trans-1,2-Dichloroethene	ND		4.9	0.50	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
trans-1,3-Dichloropropene	ND		4.9	2.1	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Trichloroethene	ND		4.9	1.1	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Trichlorofluoromethane	ND		4.9	0.46	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Vinyl chloride	ND		4.9	0.60	ug/Kg		05/25/16 20:39	05/26/16 00:41	1
Xylenes, Total	ND		9.8	0.82	ug/Kg		05/25/16 20:39	05/26/16 00:41	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	05/25/16 20:39	05/26/16 00:41	1
4-Bromofluorobenzene (Surr)	115		72 - 126	05/25/16 20:39	05/26/16 00:41	1
Dibromofluoromethane (Surr)	112		60 - 140	05/25/16 20:39	05/26/16 00:41	1
Toluene-d8 (Surr)	103		71 - 125	05/25/16 20:39	05/26/16 00:41	1

**Lab Sample ID: LCS 480-303699/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303681**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303699**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	46.7	48.6		ug/Kg		104	77 - 121
1,1,2,2-Tetrachloroethane	46.7	43.5		ug/Kg		93	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	46.7	45.7		ug/Kg		98	60 - 140
1,1,2-Trichloroethane	46.7	45.1		ug/Kg		96	78 - 122
1,1-Dichloroethane	46.7	44.2		ug/Kg		95	73 - 126
1,1-Dichloroethene	46.7	43.2		ug/Kg		92	59 - 125
1,2,4-Trichlorobenzene	46.7	45.7		ug/Kg		98	64 - 120
1,2-Dibromo-3-Chloropropane	46.7	45.8		ug/Kg		98	63 - 124
1,2-Dibromoethane	46.7	47.4		ug/Kg		101	78 - 120
1,2-Dichlorobenzene	46.7	44.7		ug/Kg		96	75 - 120
1,2-Dichloroethane	46.7	45.8		ug/Kg		98	77 - 122
1,2-Dichloropropane	46.7	43.1		ug/Kg		92	75 - 124
1,3-Dichlorobenzene	46.7	44.8		ug/Kg		96	74 - 120
1,4-Dichlorobenzene	46.7	44.2		ug/Kg		95	73 - 120
2-Butanone (MEK)	234	254		ug/Kg		109	70 - 134
2-Hexanone	234	237		ug/Kg		101	59 - 130
4-Methyl-2-pentanone (MIBK)	234	219		ug/Kg		94	65 - 133
Acetone	234	282		ug/Kg		121	61 - 137
Benzene	46.7	44.3		ug/Kg		95	79 - 127
Bromodichloromethane	46.7	48.1		ug/Kg		103	80 - 122
Bromoform	46.7	46.9		ug/Kg		100	68 - 126
Bromomethane	46.7	61.9		ug/Kg		132	37 - 149
Carbon disulfide	46.7	43.9		ug/Kg		94	64 - 131
Carbon tetrachloride	46.7	51.0		ug/Kg		109	75 - 135
Chlorobenzene	46.7	45.3		ug/Kg		97	76 - 124
Chloroethane	46.7	57.5		ug/Kg		123	69 - 135
Chloroform	46.7	45.2		ug/Kg		97	80 - 118
Chloromethane	46.7	48.2		ug/Kg		103	63 - 127
cis-1,2-Dichloroethene	46.7	46.2		ug/Kg		99	81 - 117
cis-1,3-Dichloropropene	46.7	47.5		ug/Kg		102	82 - 120
Cyclohexane	46.7	42.4		ug/Kg		91	65 - 106
Dibromochloromethane	46.7	50.8		ug/Kg		109	76 - 125
Dichlorodifluoromethane	46.7	46.4		ug/Kg		99	57 - 142
Ethylbenzene	46.7	45.1		ug/Kg		97	80 - 120
Isopropylbenzene	46.7	43.6		ug/Kg		93	72 - 120
Methyl acetate	234	222		ug/Kg		95	55 - 136
Methyl tert-butyl ether	46.7	46.9		ug/Kg		100	63 - 125
Methylcyclohexane	46.7	44.8		ug/Kg		96	60 - 140
Methylene Chloride	46.7	51.2		ug/Kg		110	61 - 127
Styrene	46.7	45.2		ug/Kg		97	80 - 120
Tetrachloroethene	46.7	47.0		ug/Kg		101	74 - 122
Toluene	46.7	41.6		ug/Kg		89	74 - 128
trans-1,2-Dichloroethene	46.7	45.8		ug/Kg		98	78 - 126

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-303699/1-A**  
**Matrix: Solid**  
**Analysis Batch: 303681**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303699**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
trans-1,3-Dichloropropene	46.7	47.8		ug/Kg		102	73 - 123
Trichloroethene	46.7	45.1		ug/Kg		96	77 - 129
Trichlorofluoromethane	46.7	54.5		ug/Kg		117	65 - 146
Vinyl chloride	46.7	54.8		ug/Kg		117	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		64 - 126
4-Bromofluorobenzene (Surr)	118		72 - 126
Dibromofluoromethane (Surr)	110		60 - 140
Toluene-d8 (Surr)	104		71 - 125

**Lab Sample ID: 480-100685-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 303681**

**Client Sample ID: RI MW-4 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 303699**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	ND		48.8	42.7		ug/Kg	☼	88	77 - 121
1,1,2,2-Tetrachloroethane	ND	F1	48.8	31.0	F1	ug/Kg	☼	63	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48.8	39.6		ug/Kg	☼	81	60 - 140
1,1,2-Trichloroethane	ND	F1	48.8	34.8	F1	ug/Kg	☼	71	78 - 122
1,1-Dichloroethane	ND		48.8	39.9		ug/Kg	☼	82	73 - 126
1,1-Dichloroethene	ND		48.8	38.5		ug/Kg	☼	79	59 - 125
1,2,4-Trichlorobenzene	ND	F1	48.8	24.2	F1	ug/Kg	☼	50	64 - 120
1,2-Dibromo-3-Chloropropane	ND	F1	48.8	28.1	F1	ug/Kg	☼	58	63 - 124
1,2-Dibromoethane	ND	F1	48.8	32.7	F1	ug/Kg	☼	67	78 - 120
1,2-Dichlorobenzene	ND	F1	48.8	31.7	F1	ug/Kg	☼	65	75 - 120
1,2-Dichloroethane	ND		48.8	38.5		ug/Kg	☼	79	77 - 122
1,2-Dichloropropane	ND		48.8	37.4		ug/Kg	☼	77	75 - 124
1,3-Dichlorobenzene	ND	F1	48.8	31.4	F1	ug/Kg	☼	64	74 - 120
1,4-Dichlorobenzene	ND	F1	48.8	30.9	F1	ug/Kg	☼	63	73 - 120
2-Butanone (MEK)	ND	F1	244	166	F1	ug/Kg	☼	68	70 - 134
2-Hexanone	ND		244	156		ug/Kg	☼	64	59 - 130
4-Methyl-2-pentanone (MIBK)	ND	F1	244	153	F1	ug/Kg	☼	63	65 - 133
Acetone	4.2	J B	244	189		ug/Kg	☼	76	61 - 137
Benzene	ND		48.8	38.6		ug/Kg	☼	79	79 - 127
Bromodichloromethane	ND		48.8	41.3		ug/Kg	☼	85	80 - 122
Bromoform	ND	F1	48.8	31.6	F1	ug/Kg	☼	65	68 - 126
Bromomethane	ND		48.8	55.3		ug/Kg	☼	113	37 - 149
Carbon disulfide	ND		48.8	34.7		ug/Kg	☼	71	64 - 131
Carbon tetrachloride	ND		48.8	42.4		ug/Kg	☼	87	75 - 135
Chlorobenzene	ND	F1	48.8	34.8	F1	ug/Kg	☼	71	76 - 124
Chloroethane	ND		48.8	49.7		ug/Kg	☼	102	69 - 135
Chloroform	ND		48.8	40.7		ug/Kg	☼	83	80 - 118
Chloromethane	ND		48.8	39.6		ug/Kg	☼	81	63 - 127
cis-1,2-Dichloroethene	11	F1	48.8	47.3	F1	ug/Kg	☼	74	81 - 117
cis-1,3-Dichloropropene	ND	F1	48.8	36.6	F1	ug/Kg	☼	75	82 - 120
Cyclohexane	ND		48.8	32.6		ug/Kg	☼	67	65 - 106

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-100685-1 MS**

**Matrix: Solid**

**Analysis Batch: 303681**

**Client Sample ID: RI MW-4 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303699**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Dibromochloromethane	ND		48.8	38.1		ug/Kg	☼	78	76 - 125
Dichlorodifluoromethane	ND		48.8	38.5		ug/Kg	☼	79	57 - 142
Ethylbenzene	ND	F1	48.8	35.6	F1	ug/Kg	☼	73	80 - 120
Isopropylbenzene	ND		48.8	35.8		ug/Kg	☼	73	72 - 120
Methyl acetate	ND		244	151		ug/Kg	☼	62	55 - 136
Methyl tert-butyl ether	ND		48.8	39.5		ug/Kg	☼	81	63 - 125
Methylcyclohexane	ND		48.8	31.5		ug/Kg	☼	64	60 - 140
Methylene Chloride	4.2	J B	48.8	48.6		ug/Kg	☼	91	61 - 127
Styrene	ND	F1	48.8	33.9	F1	ug/Kg	☼	70	80 - 120
Tetrachloroethene	ND	F1	48.8	35.7	F1	ug/Kg	☼	73	74 - 122
Toluene	ND	F1	48.8	34.0	F1	ug/Kg	☼	70	74 - 128
trans-1,2-Dichloroethene	8.1	F1	48.8	41.6	F1	ug/Kg	☼	69	78 - 126
trans-1,3-Dichloropropene	ND	F1	48.8	34.7	F1	ug/Kg	☼	71	73 - 123
Trichloroethene	10		48.8	56.3		ug/Kg	☼	95	77 - 129
Trichlorofluoromethane	ND		48.8	47.6		ug/Kg	☼	98	65 - 146
Vinyl chloride	ND		48.8	42.8		ug/Kg	☼	88	61 - 133

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	94		64 - 126
4-Bromofluorobenzene (Surr)	111		72 - 126
Dibromofluoromethane (Surr)	108		60 - 140
Toluene-d8 (Surr)	106		71 - 125

**Lab Sample ID: 480-100685-1 MSD**

**Matrix: Solid**

**Analysis Batch: 303681**

**Client Sample ID: RI MW-4 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303699**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
1,1,1-Trichloroethane	ND		49.6	45.3		ug/Kg	☼	91	77 - 121	6	30
1,1,1,2-Tetrachloroethane	ND	F1	49.6	36.0	F1	ug/Kg	☼	73	80 - 120	15	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.6	40.0		ug/Kg	☼	81	60 - 140	1	30
1,1,2-Trichloroethane	ND	F1	49.6	38.3	F1	ug/Kg	☼	77	78 - 122	10	30
1,1-Dichloroethane	ND		49.6	42.5		ug/Kg	☼	86	73 - 126	6	30
1,1-Dichloroethene	ND		49.6	40.0		ug/Kg	☼	81	59 - 125	4	30
1,2,4-Trichlorobenzene	ND	F1	49.6	30.2	F1	ug/Kg	☼	61	64 - 120	22	30
1,2-Dibromo-3-Chloropropane	ND	F1	49.6	32.9		ug/Kg	☼	66	63 - 124	16	30
1,2-Dibromoethane	ND	F1	49.6	38.3	F1	ug/Kg	☼	77	78 - 120	16	30
1,2-Dichlorobenzene	ND	F1	49.6	37.2		ug/Kg	☼	75	75 - 120	16	30
1,2-Dichloroethane	ND		49.6	42.3		ug/Kg	☼	85	77 - 122	9	30
1,2-Dichloropropane	ND		49.6	40.8		ug/Kg	☼	82	75 - 124	9	30
1,3-Dichlorobenzene	ND	F1	49.6	36.5		ug/Kg	☼	74	74 - 120	15	30
1,4-Dichlorobenzene	ND	F1	49.6	36.8		ug/Kg	☼	74	73 - 120	17	30
2-Butanone (MEK)	ND	F1	248	188		ug/Kg	☼	76	70 - 134	13	30
2-Hexanone	ND		248	183		ug/Kg	☼	74	59 - 130	16	30
4-Methyl-2-pentanone (MIBK)	ND	F1	248	173		ug/Kg	☼	70	65 - 133	12	30
Acetone	4.2	J B	248	215		ug/Kg	☼	85	61 - 137	13	30
Benzene	ND		49.6	41.3		ug/Kg	☼	83	79 - 127	7	30

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-100685-1 MSD**

**Matrix: Solid**

**Analysis Batch: 303681**

**Client Sample ID: RI MW-4 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 303699**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Bromodichloromethane	ND		49.6	44.9		ug/Kg	*	91	80 - 122	9	30
Bromoform	ND	F1	49.6	36.7		ug/Kg	*	74	68 - 126	15	30
Bromomethane	ND		49.6	56.9		ug/Kg	*	115	37 - 149	3	30
Carbon disulfide	ND		49.6	36.3		ug/Kg	*	73	64 - 131	4	30
Carbon tetrachloride	ND		49.6	45.3		ug/Kg	*	91	75 - 135	7	30
Chlorobenzene	ND	F1	49.6	39.9		ug/Kg	*	81	76 - 124	14	30
Chloroethane	ND		49.6	50.5		ug/Kg	*	102	69 - 135	2	30
Chloroform	ND		49.6	43.5		ug/Kg	*	88	80 - 118	7	30
Chloromethane	ND		49.6	41.0		ug/Kg	*	83	63 - 127	4	30
cis-1,2-Dichloroethene	11	F1	49.6	44.8	F1	ug/Kg	*	68	81 - 117	5	30
cis-1,3-Dichloropropene	ND	F1	49.6	41.2		ug/Kg	*	83	82 - 120	12	30
Cyclohexane	ND		49.6	35.1		ug/Kg	*	71	65 - 106	7	30
Dibromochloromethane	ND		49.6	44.2		ug/Kg	*	89	76 - 125	15	30
Dichlorodifluoromethane	ND		49.6	41.3		ug/Kg	*	83	57 - 142	7	30
Ethylbenzene	ND	F1	49.6	39.5		ug/Kg	*	80	80 - 120	11	30
Isopropylbenzene	ND		49.6	38.9		ug/Kg	*	78	72 - 120	8	30
Methyl acetate	ND		248	166		ug/Kg	*	67	55 - 136	9	30
Methyl tert-butyl ether	ND		49.6	42.1		ug/Kg	*	85	63 - 125	6	30
Methylcyclohexane	ND		49.6	33.6		ug/Kg	*	68	60 - 140	6	30
Methylene Chloride	4.2	J B	49.6	51.4		ug/Kg	*	95	61 - 127	6	30
Styrene	ND	F1	49.6	38.7	F1	ug/Kg	*	78	80 - 120	13	30
Tetrachloroethene	ND	F1	49.6	39.9		ug/Kg	*	81	74 - 122	11	30
Toluene	ND	F1	49.6	37.5		ug/Kg	*	76	74 - 128	10	30
trans-1,2-Dichloroethene	8.1	F1	49.6	42.4	F1	ug/Kg	*	69	78 - 126	2	30
trans-1,3-Dichloropropene	ND	F1	49.6	39.7		ug/Kg	*	80	73 - 123	14	30
Trichloroethene	10		49.6	50.0		ug/Kg	*	81	77 - 129	12	30
Trichlorofluoromethane	ND		49.6	49.6		ug/Kg	*	100	65 - 146	4	30
Vinyl chloride	ND		49.6	43.9		ug/Kg	*	89	61 - 133	2	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	96		64 - 126
4-Bromofluorobenzene (Surr)	115		72 - 126
Dibromofluoromethane (Surr)	109		60 - 140
Toluene-d8 (Surr)	106		71 - 125

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 480-303734/1-A**

**Matrix: Solid**

**Analysis Batch: 304364**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303734**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Biphenyl	ND		160	24	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
bis (2-chloroisopropyl) ether	ND		160	33	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
2,4,5-Trichlorophenol	ND		160	45	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
2,4,6-Trichlorophenol	ND		160	33	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
2,4-Dichlorophenol	ND		160	17	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
2,4-Dimethylphenol	ND		160	40	ug/Kg		05/26/16 07:45	05/31/16 13:07	1

TestAmerica Buffalo



# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-303734/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304364**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303734**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		1600	760	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
2,4-Dinitrotoluene	ND		160	34	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
2,6-Dinitrotoluene	ND		160	19	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
2-Chloronaphthalene	ND		160	27	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
2-Chlorophenol	ND		160	30	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
2-Methylphenol	ND		160	19	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
2-Methylnaphthalene	ND		160	33	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
2-Nitroaniline	ND		320	24	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
2-Nitrophenol	ND		160	47	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
3,3'-Dichlorobenzidine	ND		320	190	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
3-Nitroaniline	ND		320	46	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
4,6-Dinitro-2-methylphenol	ND		320	160	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
4-Bromophenyl phenyl ether	ND		160	23	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
4-Chloro-3-methylphenol	ND		160	41	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
4-Chloroaniline	ND		160	41	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
4-Chlorophenyl phenyl ether	ND		160	20	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
4-Methylphenol	ND		320	19	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
4-Nitroaniline	ND		320	86	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
4-Nitrophenol	ND		320	120	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Acenaphthene	ND		160	24	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Acenaphthylene	ND		160	21	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Acetophenone	ND		160	22	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Anthracene	ND		160	41	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Atrazine	ND		160	57	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Benzaldehyde	ND		160	130	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Benzo[a]anthracene	ND		160	16	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Benzo[a]pyrene	ND		160	24	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Benzo[b]fluoranthene	ND		160	26	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Benzo[g,h,i]perylene	ND		160	17	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Benzo[k]fluoranthene	ND		160	21	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Bis(2-chloroethoxy)methane	ND		160	35	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Bis(2-chloroethyl)ether	ND		160	21	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Bis(2-ethylhexyl) phthalate	ND		160	56	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Butyl benzyl phthalate	ND		160	27	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Caprolactam	ND		160	49	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Carbazole	ND		160	19	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Chrysene	ND		160	37	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Dibenz(a,h)anthracene	ND		160	29	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Di-n-butyl phthalate	ND		160	28	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Di-n-octyl phthalate	ND		160	19	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Dibenzofuran	ND		160	19	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Diethyl phthalate	ND		160	21	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Dimethyl phthalate	ND		160	19	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Fluoranthene	ND		160	17	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Fluorene	ND		160	19	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Hexachlorobenzene	ND		160	22	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Hexachlorobutadiene	ND		160	24	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Hexachlorocyclopentadiene	ND		160	22	ug/Kg		05/26/16 07:45	05/31/16 13:07	1

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-303734/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304364**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303734**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		160	21	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Indeno[1,2,3-cd]pyrene	ND		160	20	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Isophorone	ND		160	35	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
N-Nitrosodi-n-propylamine	ND		160	28	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
N-Nitrosodiphenylamine	ND		160	130	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Naphthalene	ND		160	21	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Nitrobenzene	ND		160	18	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Pentachlorophenol	ND		320	160	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Phenanthrene	ND		160	24	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Phenol	ND		160	25	ug/Kg		05/26/16 07:45	05/31/16 13:07	1
Pyrene	ND		160	19	ug/Kg		05/26/16 07:45	05/31/16 13:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	70		34 - 132	05/26/16 07:45	05/31/16 13:07	1
Phenol-d5 (Surr)	70		11 - 120	05/26/16 07:45	05/31/16 13:07	1
p-Terphenyl-d14 (Surr)	80		65 - 153	05/26/16 07:45	05/31/16 13:07	1
2,4,6-Tribromophenol (Surr)	67		39 - 146	05/26/16 07:45	05/31/16 13:07	1
2-Fluorobiphenyl	74		37 - 120	05/26/16 07:45	05/31/16 13:07	1
2-Fluorophenol (Surr)	68		18 - 120	05/26/16 07:45	05/31/16 13:07	1

**Lab Sample ID: LCS 480-303734/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304364**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303734**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Biphenyl	1640	1230		ug/Kg		75	71 - 120
bis (2-chloroisopropyl) ether	1640	1050		ug/Kg		64	44 - 120
2,4,5-Trichlorophenol	1640	1310		ug/Kg		80	59 - 126
2,4,6-Trichlorophenol	1640	1320		ug/Kg		80	59 - 123
2,4-Dichlorophenol	1640	1250		ug/Kg		76	52 - 120
2,4-Dimethylphenol	1640	1200		ug/Kg		73	36 - 120
2,4-Dinitrophenol	3290	2480		ug/Kg		75	35 - 146
2,4-Dinitrotoluene	1640	1270		ug/Kg		77	55 - 125
2,6-Dinitrotoluene	1640	1290		ug/Kg		78	66 - 128
2-Chloronaphthalene	1640	1220		ug/Kg		74	57 - 120
2-Chlorophenol	1640	1150		ug/Kg		70	38 - 120
2-Methylphenol	1640	1140		ug/Kg		70	48 - 120
2-Methylnaphthalene	1640	1250		ug/Kg		76	47 - 120
2-Nitroaniline	1640	1180		ug/Kg		72	61 - 130
2-Nitrophenol	1640	1170		ug/Kg		71	50 - 120
3,3'-Dichlorobenzidine	3290	2340		ug/Kg		71	48 - 126
3-Nitroaniline	1640	1160		ug/Kg		71	61 - 127
4,6-Dinitro-2-methylphenol	3290	2530		ug/Kg		77	49 - 155
4-Bromophenyl phenyl ether	1640	1330		ug/Kg		81	58 - 131
4-Chloro-3-methylphenol	1640	1240		ug/Kg		76	49 - 125
4-Chloroaniline	1640	1010		ug/Kg		61	49 - 120
4-Chlorophenyl phenyl ether	1640	1300		ug/Kg		79	63 - 124
4-Methylphenol	1640	1160		ug/Kg		71	50 - 119

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-303734/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304364**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303734**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	1640	1180		ug/Kg		72	63 - 128
4-Nitrophenol	3290	2460		ug/Kg		75	43 - 137
Acenaphthene	1640	1250		ug/Kg		76	53 - 120
Acenaphthylene	1640	1230		ug/Kg		75	58 - 121
Acetophenone	1640	1160		ug/Kg		70	66 - 120
Anthracene	1640	1250		ug/Kg		76	62 - 129
Atrazine	3290	2560		ug/Kg		78	60 - 164
Benzaldehyde	3290	1820		ug/Kg		55	21 - 120
Benzo[a]anthracene	1640	1310		ug/Kg		80	65 - 133
Benzo[a]pyrene	1640	1290		ug/Kg		78	64 - 127
Benzo[b]fluoranthene	1640	1270		ug/Kg		77	64 - 135
Benzo[g,h,i]perylene	1640	1270		ug/Kg		77	50 - 152
Benzo[k]fluoranthene	1640	1350		ug/Kg		82	58 - 138
Bis(2-chloroethoxy)methane	1640	1190		ug/Kg		72	61 - 133
Bis(2-chloroethyl)ether	1640	1120		ug/Kg		68	45 - 120
Bis(2-ethylhexyl) phthalate	1640	1240		ug/Kg		76	61 - 133
Butyl benzyl phthalate	1640	1230		ug/Kg		75	61 - 129
Caprolactam	3290	2520		ug/Kg		77	54 - 133
Carbazole	1640	1260		ug/Kg		77	59 - 129
Chrysene	1640	1290		ug/Kg		78	64 - 131
Dibenz(a,h)anthracene	1640	1270		ug/Kg		77	54 - 148
Di-n-butyl phthalate	1640	1270		ug/Kg		77	58 - 130
Di-n-octyl phthalate	1640	1220		ug/Kg		74	62 - 133
Dibenzofuran	1640	1260		ug/Kg		77	56 - 120
Diethyl phthalate	1640	1260		ug/Kg		77	66 - 126
Dimethyl phthalate	1640	1280		ug/Kg		78	65 - 124
Fluoranthene	1640	1300		ug/Kg		79	62 - 131
Fluorene	1640	1280		ug/Kg		78	63 - 126
Hexachlorobenzene	1640	1340		ug/Kg		82	60 - 132
Hexachlorobutadiene	1640	1190		ug/Kg		73	45 - 120
Hexachlorocyclopentadiene	1640	1190		ug/Kg		72	31 - 120
Hexachloroethane	1640	1060		ug/Kg		65	41 - 120
Indeno[1,2,3-cd]pyrene	1640	1280		ug/Kg		78	56 - 149
Isophorone	1640	1200		ug/Kg		73	56 - 120
N-Nitrosodi-n-propylamine	1640	1130		ug/Kg		69	46 - 120
Naphthalene	1640	1200		ug/Kg		73	46 - 120
Nitrobenzene	1640	1150		ug/Kg		70	49 - 120
Pentachlorophenol	3290	2460		ug/Kg		75	33 - 136
Phenanthrene	1640	1310		ug/Kg		79	60 - 130
Phenol	1640	1140		ug/Kg		69	36 - 120
Pyrene	1640	1310		ug/Kg		80	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	70		34 - 132
Phenol-d5 (Surr)	67		11 - 120
p-Terphenyl-d14 (Surr)	78		65 - 153
2,4,6-Tribromophenol (Surr)	78		39 - 146
2-Fluorobiphenyl	75		37 - 120

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-303734/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304364**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303734**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	65		18 - 120

**Lab Sample ID: 480-100685-3 MS**  
**Matrix: Solid**  
**Analysis Batch: 304364**

**Client Sample ID: RI MW-6 (4-7)**  
**Prep Type: Total/NA**  
**Prep Batch: 303734**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Biphenyl	ND		2000	1550		ug/Kg	☼	77	71 - 120
bis (2-chloroisopropyl) ether	ND		2000	1300		ug/Kg	☼	65	44 - 120
2,4,5-Trichlorophenol	ND		2000	1640		ug/Kg	☼	82	59 - 126
2,4,6-Trichlorophenol	ND		2000	1610		ug/Kg	☼	81	59 - 123
2,4-Dichlorophenol	ND		2000	1530		ug/Kg	☼	76	52 - 120
2,4-Dimethylphenol	ND		2000	1470		ug/Kg	☼	74	36 - 120
2,4-Dinitrophenol	ND		4010	2600		ug/Kg	☼	65	35 - 146
2,4-Dinitrotoluene	ND		2000	1550		ug/Kg	☼	78	55 - 125
2,6-Dinitrotoluene	ND		2000	1600		ug/Kg	☼	80	66 - 128
2-Chloronaphthalene	ND		2000	1490		ug/Kg	☼	75	57 - 120
2-Chlorophenol	ND		2000	1410		ug/Kg	☼	71	38 - 120
2-Methylphenol	ND		2000	1460		ug/Kg	☼	73	48 - 120
2-Methylnaphthalene	ND		2000	1560		ug/Kg	☼	78	47 - 120
2-Nitroaniline	ND		2000	1500		ug/Kg	☼	75	61 - 130
2-Nitrophenol	ND		2000	1450		ug/Kg	☼	72	50 - 120
3,3'-Dichlorobenzidine	ND		4010	3130		ug/Kg	☼	78	48 - 126
3-Nitroaniline	ND		2000	1500		ug/Kg	☼	75	61 - 127
4,6-Dinitro-2-methylphenol	ND		4010	3110		ug/Kg	☼	78	49 - 155
4-Bromophenyl phenyl ether	ND		2000	1610		ug/Kg	☼	80	58 - 131
4-Chloro-3-methylphenol	ND		2000	1540		ug/Kg	☼	77	49 - 125
4-Chloroaniline	ND		2000	1350		ug/Kg	☼	68	49 - 120
4-Chlorophenyl phenyl ether	ND		2000	1580		ug/Kg	☼	79	63 - 124
4-Methylphenol	ND		2000	1490		ug/Kg	☼	74	50 - 119
4-Nitroaniline	ND		2000	1510		ug/Kg	☼	75	63 - 128
4-Nitrophenol	ND		4010	3060		ug/Kg	☼	76	43 - 137
Acenaphthene	75	J	2000	1930		ug/Kg	☼	93	53 - 120
Acenaphthylene	ND		2000	1550		ug/Kg	☼	77	58 - 121
Acetophenone	ND		2000	1400		ug/Kg	☼	70	66 - 120
Anthracene	180	J F2	2000	2470		ug/Kg	☼	114	62 - 129
Atrazine	ND		4010	3220		ug/Kg	☼	80	60 - 164
Benzaldehyde	ND		4010	2330		ug/Kg	☼	58	21 - 120
Benzo[a]anthracene	370	F2 F1	2000	3430	F1	ug/Kg	☼	153	65 - 133
Benzo[a]pyrene	300	F2 F1	2000	3170	F1	ug/Kg	☼	143	64 - 127
Benzo[b]fluoranthene	380	F2 F1	2000	3380	F1	ug/Kg	☼	150	64 - 135
Benzo[g,h,i]perylene	170	J F2	2000	2850		ug/Kg	☼	134	50 - 152
Benzo[k]fluoranthene	170	J F2	2000	2650		ug/Kg	☼	124	58 - 138
Bis(2-chloroethoxy)methane	ND		2000	1410		ug/Kg	☼	70	61 - 133
Bis(2-chloroethyl)ether	ND		2000	1390		ug/Kg	☼	69	45 - 120
Bis(2-ethylhexyl) phthalate	85	J	2000	1710		ug/Kg	☼	81	61 - 133
Butyl benzyl phthalate	ND		2000	1590		ug/Kg	☼	79	61 - 129
Caprolactam	ND		4010	3210		ug/Kg	☼	80	54 - 133

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-100685-3 MS**

**Matrix: Solid**

**Analysis Batch: 304364**

**Client Sample ID: RI MW-6 (4-7)**

**Prep Type: Total/NA**

**Prep Batch: 303734**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Carbazole	83	J F2	2000	1980		ug/Kg	☼	95	59 - 129
Chrysene	350	F2 F1	2000	3350	F1	ug/Kg	☼	150	64 - 131
Dibenz(a,h)anthracene	ND	F2	2000	1950		ug/Kg	☼	97	54 - 148
Di-n-butyl phthalate	ND		2000	1800		ug/Kg	☼	90	58 - 130
Di-n-octyl phthalate	ND		2000	1570		ug/Kg	☼	78	62 - 133
Dibenzofuran	51	J F2	2000	1820		ug/Kg	☼	88	56 - 120
Diethyl phthalate	42	J	2000	1610		ug/Kg	☼	78	66 - 126
Dimethyl phthalate	ND		2000	1570		ug/Kg	☼	78	65 - 124
Fluoranthene	920	F2 F1	2000	6130	E F1	ug/Kg	☼	260	62 - 131
Fluorene	67	J F2	2000	1910		ug/Kg	☼	92	63 - 126
Hexachlorobenzene	ND		2000	1590		ug/Kg	☼	80	60 - 132
Hexachlorobutadiene	ND		2000	1400		ug/Kg	☼	70	45 - 120
Hexachlorocyclopentadiene	ND		2000	1350		ug/Kg	☼	67	31 - 120
Hexachloroethane	ND		2000	1230		ug/Kg	☼	61	41 - 120
Indeno[1,2,3-cd]pyrene	150	J F2	2000	2620		ug/Kg	☼	123	56 - 149
Isophorone	ND		2000	1440		ug/Kg	☼	72	56 - 120
N-Nitrosodi-n-propylamine	ND		2000	1430		ug/Kg	☼	71	46 - 120
Naphthalene	ND		2000	1550		ug/Kg	☼	77	46 - 120
Nitrobenzene	ND		2000	1380		ug/Kg	☼	69	49 - 120
Pentachlorophenol	ND		4010	3050		ug/Kg	☼	76	33 - 136
Phenanthrene	840	F2 F1	2000	5660	E F1	ug/Kg	☼	240	60 - 130
Phenol	ND		2000	1410		ug/Kg	☼	70	36 - 120
Pyrene	770	F2 F1	2000	5390	E F1	ug/Kg	☼	230	51 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	70		34 - 132
Phenol-d5 (Surr)	70		11 - 120
p-Terphenyl-d14 (Surr)	80		65 - 153
2,4,6-Tribromophenol (Surr)	81		39 - 146
2-Fluorobiphenyl	77		37 - 120
2-Fluorophenol (Surr)	68		18 - 120

**Lab Sample ID: 480-100685-3 MSD**

**Matrix: Solid**

**Analysis Batch: 304364**

**Client Sample ID: RI MW-6 (4-7)**

**Prep Type: Total/NA**

**Prep Batch: 303734**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Biphenyl	ND		1960	1500		ug/Kg	☼	76	71 - 120	3	20
bis (2-chloroisopropyl) ether	ND		1960	1290		ug/Kg	☼	66	44 - 120	1	24
2,4,5-Trichlorophenol	ND		1960	1540		ug/Kg	☼	78	59 - 126	7	18
2,4,6-Trichlorophenol	ND		1960	1600		ug/Kg	☼	81	59 - 123	1	19
2,4-Dichlorophenol	ND		1960	1460		ug/Kg	☼	74	52 - 120	4	19
2,4-Dimethylphenol	ND		1960	1460		ug/Kg	☼	74	36 - 120	1	42
2,4-Dinitrophenol	ND		3930	2700		ug/Kg	☼	69	35 - 146	4	22
2,4-Dinitrotoluene	ND		1960	1520		ug/Kg	☼	77	55 - 125	2	20
2,6-Dinitrotoluene	ND		1960	1540		ug/Kg	☼	78	66 - 128	4	15
2-Chloronaphthalene	ND		1960	1470		ug/Kg	☼	75	57 - 120	2	21
2-Chlorophenol	ND		1960	1400		ug/Kg	☼	71	38 - 120	1	25

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-100685-3 MSD**

**Matrix: Solid**

**Analysis Batch: 304364**

**Client Sample ID: RI MW-6 (4-7)**

**Prep Type: Total/NA**

**Prep Batch: 303734**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2-Methylphenol	ND		1960	1430		ug/Kg	☼	73	48 - 120	2	27
2-Methylnaphthalene	ND		1960	1450		ug/Kg	☼	74	47 - 120	7	21
2-Nitroaniline	ND		1960	1490		ug/Kg	☼	76	61 - 130	1	15
2-Nitrophenol	ND		1960	1440		ug/Kg	☼	73	50 - 120	0	18
3,3'-Dichlorobenzidine	ND		3930	2880		ug/Kg	☼	73	48 - 126	8	25
3-Nitroaniline	ND		1960	1460		ug/Kg	☼	74	61 - 127	3	19
4,6-Dinitro-2-methylphenol	ND		3930	2960		ug/Kg	☼	75	49 - 155	5	15
4-Bromophenyl phenyl ether	ND		1960	1570		ug/Kg	☼	80	58 - 131	2	15
4-Chloro-3-methylphenol	ND		1960	1500		ug/Kg	☼	77	49 - 125	2	27
4-Chloroaniline	ND		1960	1310		ug/Kg	☼	67	49 - 120	4	22
4-Chlorophenyl phenyl ether	ND		1960	1550		ug/Kg	☼	79	63 - 124	2	16
4-Methylphenol	ND		1960	1480		ug/Kg	☼	75	50 - 119	1	24
4-Nitroaniline	ND		1960	1500		ug/Kg	☼	76	63 - 128	0	24
4-Nitrophenol	ND		3930	2980		ug/Kg	☼	76	43 - 137	3	25
Acenaphthene	75	J	1960	1540		ug/Kg	☼	75	53 - 120	22	35
Acenaphthylene	ND		1960	1470		ug/Kg	☼	75	58 - 121	5	18
Acetophenone	ND		1960	1400		ug/Kg	☼	71	66 - 120	0	20
Anthracene	180	J F2	1960	1610	F2	ug/Kg	☼	73	62 - 129	42	15
Atrazine	ND		3930	3170		ug/Kg	☼	81	60 - 164	1	20
Benzaldehyde	ND		3930	2300		ug/Kg	☼	59	21 - 120	1	20
Benzo[a]anthracene	370	F2 F1	1960	1740	F2	ug/Kg	☼	70	65 - 133	65	15
Benzo[a]pyrene	300	F2 F1	1960	1770	F2	ug/Kg	☼	75	64 - 127	57	15
Benzo[b]fluoranthene	380	F2 F1	1960	1660	F2	ug/Kg	☼	65	64 - 135	68	15
Benzo[g,h,i]perylene	170	J F2	1960	1660	F2	ug/Kg	☼	76	50 - 152	53	15
Benzo[k]fluoranthene	170	J F2	1960	1730	F2	ug/Kg	☼	80	58 - 138	42	22
Bis(2-chloroethoxy)methane	ND		1960	1430		ug/Kg	☼	73	61 - 133	1	17
Bis(2-chloroethyl)ether	ND		1960	1380		ug/Kg	☼	70	45 - 120	1	21
Bis(2-ethylhexyl) phthalate	85	J	1960	1520		ug/Kg	☼	73	61 - 133	11	15
Butyl benzyl phthalate	ND		1960	1540		ug/Kg	☼	78	61 - 129	4	16
Caprolactam	ND		3930	3150		ug/Kg	☼	80	54 - 133	2	20
Carbazole	83	J F2	1960	1570	F2	ug/Kg	☼	76	59 - 129	23	20
Chrysene	350	F2 F1	1960	1700	F2	ug/Kg	☼	69	64 - 131	65	15
Dibenz(a,h)anthracene	ND	F2	1960	1530	F2	ug/Kg	☼	78	54 - 148	24	15
Di-n-butyl phthalate	ND		1960	1570		ug/Kg	☼	80	58 - 130	13	15
Di-n-octyl phthalate	ND		1960	1500		ug/Kg	☼	76	62 - 133	5	16
Dibenzofuran	51	J F2	1960	1550	F2	ug/Kg	☼	76	56 - 120	16	15
Diethyl phthalate	42	J	1960	1520		ug/Kg	☼	75	66 - 126	6	15
Dimethyl phthalate	ND		1960	1540		ug/Kg	☼	78	65 - 124	2	15
Fluoranthene	920	F2 F1	1960	2060	F1 F2	ug/Kg	☼	58	62 - 131	99	15
Fluorene	67	J F2	1960	1570	F2	ug/Kg	☼	76	63 - 126	20	15
Hexachlorobenzene	ND		1960	1570		ug/Kg	☼	80	60 - 132	2	15
Hexachlorobutadiene	ND		1960	1400		ug/Kg	☼	71	45 - 120	0	44
Hexachlorocyclopentadiene	ND		1960	1370		ug/Kg	☼	70	31 - 120	1	49
Hexachloroethane	ND		1960	1230		ug/Kg	☼	63	41 - 120	0	46
Indeno[1,2,3-cd]pyrene	150	J F2	1960	1640	F2	ug/Kg	☼	76	56 - 149	46	15
Isophorone	ND		1960	1420		ug/Kg	☼	73	56 - 120	1	17
N-Nitrosodi-n-propylamine	ND		1960	1410		ug/Kg	☼	72	46 - 120	1	31
Naphthalene	ND		1960	1400		ug/Kg	☼	71	46 - 120	10	29

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-100685-3 MSD**

**Matrix: Solid**

**Analysis Batch: 304364**

**Client Sample ID: RI MW-6 (4-7)**

**Prep Type: Total/NA**

**Prep Batch: 303734**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrobenzene	ND		1960	1360		ug/Kg	☼	69	49 - 120	1	24
Pentachlorophenol	ND		3930	3010		ug/Kg	☼	77	33 - 136	1	35
Phenanthrene	840	F2 F1	1960	2000	F1 F2	ug/Kg	☼	59	60 - 130	96	15
Phenol	ND		1960	1400		ug/Kg	☼	71	36 - 120	0	35
Pyrene	770	F2 F1	1960	1960	F2	ug/Kg	☼	61	51 - 133	93	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	71		34 - 132
Phenol-d5 (Surr)	72		11 - 120
p-Terphenyl-d14 (Surr)	76		65 - 153
2,4,6-Tribromophenol (Surr)	81		39 - 146
2-Fluorobiphenyl	76		37 - 120
2-Fluorophenol (Surr)	71		18 - 120

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 480-303838/1-A**

**Matrix: Solid**

**Analysis Batch: 303915**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 303838**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.18	0.036	mg/Kg		05/26/16 12:03	05/26/16 20:41	1
PCB-1221	ND		0.18	0.036	mg/Kg		05/26/16 12:03	05/26/16 20:41	1
PCB-1232	ND		0.18	0.036	mg/Kg		05/26/16 12:03	05/26/16 20:41	1
PCB-1242	ND		0.18	0.036	mg/Kg		05/26/16 12:03	05/26/16 20:41	1
PCB-1248	ND		0.18	0.036	mg/Kg		05/26/16 12:03	05/26/16 20:41	1
PCB-1254	ND		0.18	0.085	mg/Kg		05/26/16 12:03	05/26/16 20:41	1
PCB-1260	ND		0.18	0.085	mg/Kg		05/26/16 12:03	05/26/16 20:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	116		60 - 154	05/26/16 12:03	05/26/16 20:41	1
Tetrachloro-m-xylene	104		60 - 154	05/26/16 12:03	05/26/16 20:41	1
DCB Decachlorobiphenyl	125		65 - 174	05/26/16 12:03	05/26/16 20:41	1
DCB Decachlorobiphenyl	108		65 - 174	05/26/16 12:03	05/26/16 20:41	1

**Lab Sample ID: LCS 480-303838/2-A**

**Matrix: Solid**

**Analysis Batch: 303915**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 303838**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1.69	2.27		mg/Kg		134	51 - 185
PCB-1260	1.69	2.24		mg/Kg		133	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	131		60 - 154
Tetrachloro-m-xylene	113		60 - 154
DCB Decachlorobiphenyl	138		65 - 174

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCS 480-303838/2-A**  
**Matrix: Solid**  
**Analysis Batch: 303915**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303838**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	118		65 - 174

**Lab Sample ID: 480-100685-3 MS**  
**Matrix: Solid**  
**Analysis Batch: 303915**

**Client Sample ID: RI MW-6 (4-7)**  
**Prep Type: Total/NA**  
**Prep Batch: 303838**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
PCB-1016	ND		2.16	2.99		mg/Kg	☼	139	50 - 177
PCB-1260	ND		2.16	3.05		mg/Kg	☼	141	33 - 200

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	133		60 - 154
Tetrachloro-m-xylene	122		60 - 154
DCB Decachlorobiphenyl	144		65 - 174
DCB Decachlorobiphenyl	129		65 - 174

**Lab Sample ID: 480-100685-3 MSD**  
**Matrix: Solid**  
**Analysis Batch: 303915**

**Client Sample ID: RI MW-6 (4-7)**  
**Prep Type: Total/NA**  
**Prep Batch: 303838**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	ND		2.49	3.17		mg/Kg	☼	127	50 - 177	6	50
PCB-1260	ND		2.49	3.14		mg/Kg	☼	126	33 - 200	3	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	119		60 - 154
Tetrachloro-m-xylene	114		60 - 154
DCB Decachlorobiphenyl	127		65 - 174
DCB Decachlorobiphenyl	117		65 - 174

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 480-303852/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304475**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303852**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.1		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Antimony	ND		15.1		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Arsenic	ND		2.0		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Barium	ND		0.50		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Beryllium	ND		0.20		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Cadmium	ND		0.20		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Calcium	ND		50.4		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Chromium	ND		0.50		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Cobalt	ND		0.50		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Copper	ND		1.0		mg/Kg		05/31/16 10:33	05/31/16 11:02	1

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: MB 480-303852/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304475**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303852**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		10.1		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Lead	ND		1.0		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Magnesium	ND		20.2		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Manganese	ND		0.20		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Nickel	ND		5.0		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Potassium	ND		30.3		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Selenium	ND		4.0		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Silver	ND		0.61		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Sodium	ND		141		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Thallium	ND		6.1		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Vanadium	ND		0.50		mg/Kg		05/31/16 10:33	05/31/16 11:02	1
Zinc	ND		2.0		mg/Kg		05/31/16 10:33	05/31/16 11:02	1

**Lab Sample ID: LCDSRM 480-303852/3-A**  
**Matrix: Solid**  
**Analysis Batch: 304475**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 303852**

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	7930	8940		mg/Kg		112.7	39.0 - 161.4	1	20
Antimony	105	68.82		mg/Kg		65.5	20.4 - 254.3	0	20
Arsenic	98.5	82.19		mg/Kg		83.4	69.3 - 145.2	3	20
Barium	308	253.9		mg/Kg		82.4	74.0 - 126.0	2	20
Beryllium	66.0	54.82		mg/Kg		83.1	73.6 - 126.4	2	20
Cadmium	146	122.4		mg/Kg		83.8	73.3 - 126.7	3	20
Calcium	6610	5520		mg/Kg		83.5	74.1 - 125.9	0	20
Chromium	182	154.5		mg/Kg		84.9	70.9 - 129.7	1	20
Cobalt	162	156.9		mg/Kg		96.9	74.1 - 125.3	3	20
Copper	106	88.57		mg/Kg		83.6	74.5 - 125.5	1	20
Iron	14400	14700		mg/Kg		102.1	35.6 - 163.9	0	20
Lead	130	123.5		mg/Kg		95.0	72.5 - 126.9	2	20
Magnesium	2640	2412		mg/Kg		91.4	64.4 - 136.0	0	20
Manganese	410	354.2		mg/Kg		86.4	76.3 - 123.9	1	20
Nickel	149	146.6		mg/Kg		98.4	73.2 - 126.8	2	20
Potassium	2550	2553		mg/Kg		100.1	60.8 - 138.8	1	20
Selenium	154	127.8		mg/Kg		83.0	67.5 - 132.5	2	20

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: LCDSRM 480-303852/3-A**  
**Matrix: Solid**  
**Analysis Batch: 304475**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 303852**

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	40.9	32.69		mg/Kg		79.9	66.0 - 133.7	1	20
Sodium	2480	2152		mg/Kg		86.8	65.3 - 134.3	6	20
Thallium	175	174.2		mg/Kg		99.5	68.6 - 130.9	4	20
Vanadium	96.7	90.31		mg/Kg		93.4	64.4 - 135.5	1	20
Zinc	191	159.9		mg/Kg		83.7	69.6 - 130.4	1	20

**Lab Sample ID: LCSSRM 480-303852/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304475**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303852**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	7930	9048		mg/Kg		114.1	39.0 - 161.4		
Antimony	105	68.82		mg/Kg		65.5	20.4 - 254.3		
Arsenic	98.5	84.37		mg/Kg		85.7	69.3 - 145.2		
Barium	308	259.4		mg/Kg		84.2	74.0 - 126.0		
Beryllium	66.0	55.70		mg/Kg		84.4	73.6 - 126.4		
Cadmium	146	126.6		mg/Kg		86.7	73.3 - 126.7		
Calcium	6610	5510		mg/Kg		83.4	74.1 - 125.9		
Chromium	182	156.0		mg/Kg		85.7	70.9 - 129.7		
Cobalt	162	161.1		mg/Kg		99.5	74.1 - 125.3		
Copper	106	89.63		mg/Kg		84.6	74.5 - 125.5		
Iron	14400	14750		mg/Kg		102.4	35.6 - 163.9		
Lead	130	126.5		mg/Kg		97.3	72.5 - 126.9		
Magnesium	2640	2415		mg/Kg		91.5	64.4 - 136.0		
Manganese	410	351.3		mg/Kg		85.7	76.3 - 123.9		
Nickel	149	149.7		mg/Kg		100.4	73.2 - 126.8		
Potassium	2550	2584		mg/Kg		101.3	60.8 - 138.8		
Selenium	154	129.9		mg/Kg		84.4	67.5 - 132.5		
Silver	40.9	33.15		mg/Kg		81.0	66.0 - 133.7		
Sodium	2480	2294		mg/Kg		92.5	65.3 - 134.3		

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: LCSSRM 480-303852/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304475**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303852**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Thallium	175	180.8		mg/Kg		103.3	68.6 - 130.9
Vanadium	96.7	91.21		mg/Kg		94.3	64.4 - 135.5
Zinc	191	161.8		mg/Kg		84.7	69.6 - 130.4

**Lab Sample ID: 480-100685-3 MS**  
**Matrix: Solid**  
**Analysis Batch: 304475**

**Client Sample ID: RI MW-6 (4-7)**  
**Prep Type: Total/NA**  
**Prep Batch: 303852**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aluminum	3980	F1	2310	10210	F1	mg/Kg	☼	269	75 - 125
Antimony	ND		46.3	35.98		mg/Kg	☼	78	75 - 125
Arsenic	ND		46.3	45.31		mg/Kg	☼	96	75 - 125
Barium	25.7	F1	46.3	89.38	F1	mg/Kg	☼	138	75 - 125
Beryllium	ND		46.3	41.07		mg/Kg	☼	88	75 - 125
Cadmium	ND		46.3	42.33		mg/Kg	☼	91	75 - 125
Calcium	55900		2310	61250	4	mg/Kg	☼	230	75 - 125
Chromium	8.7		46.3	63.62		mg/Kg	☼	119	75 - 125
Cobalt	2.5		46.3	50.93		mg/Kg	☼	105	75 - 125
Copper	7.1		46.3	57.63		mg/Kg	☼	109	75 - 125
Iron	7180	F1	2310	11190	F1	mg/Kg	☼	174	75 - 125
Lead	13.1	F1	46.3	72.93	F1	mg/Kg	☼	129	75 - 125
Magnesium	26700		2310	30370	4	mg/Kg	☼	159	75 - 125
Manganese	281		46.3	376.1	4	mg/Kg	☼	206	75 - 125
Nickel	ND		46.3	56.30		mg/Kg	☼	109	75 - 125
Potassium	1310	F1	2320	4979	F1	mg/Kg	☼	158	75 - 125
Selenium	ND		46.3	42.52		mg/Kg	☼	92	75 - 125
Silver	ND		11.6	10.93		mg/Kg	☼	94	75 - 125
Sodium	231		2320	2608		mg/Kg	☼	103	75 - 125
Thallium	ND		46.3	46.36		mg/Kg	☼	100	75 - 125
Vanadium	12.4		46.3	61.05		mg/Kg	☼	105	75 - 125
Zinc	58.7	F1	46.3	125.8	F1	mg/Kg	☼	145	75 - 125

**Lab Sample ID: 480-100685-3 MSD**  
**Matrix: Solid**  
**Analysis Batch: 304475**

**Client Sample ID: RI MW-6 (4-7)**  
**Prep Type: Total/NA**  
**Prep Batch: 303852**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aluminum	3980	F1	2470	9194	F1	mg/Kg	☼	211	75 - 125	10	20
Antimony	ND		49.4	39.51		mg/Kg	☼	80	75 - 125	9	20
Arsenic	ND		49.4	47.44		mg/Kg	☼	94	75 - 125	5	20
Barium	25.7	F1	49.4	76.44		mg/Kg	☼	103	75 - 125	16	20
Beryllium	ND		49.4	43.53		mg/Kg	☼	88	75 - 125	6	20
Cadmium	ND		49.4	45.00		mg/Kg	☼	91	75 - 125	6	20
Calcium	55900		2470	60740	4	mg/Kg	☼	195	75 - 125	1	20
Chromium	8.7		49.4	54.20		mg/Kg	☼	92	75 - 125	16	20
Cobalt	2.5		49.4	52.90		mg/Kg	☼	102	75 - 125	4	20

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: 480-100685-3 MSD**  
**Matrix: Solid**  
**Analysis Batch: 304475**

**Client Sample ID: RI MW-6 (4-7)**  
**Prep Type: Total/NA**  
**Prep Batch: 303852**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Copper	7.1		49.4	52.22		mg/Kg	☼	91	75 - 125	10	20	
Iron	7180	F1	2470	10950	F1	mg/Kg	☼	153	75 - 125	2	20	
Lead	13.1	F1	49.4	67.48		mg/Kg	☼	110	75 - 125	8	20	
Magnesium	26700		2470	31240	4	mg/Kg	☼	184	75 - 125	3	20	
Manganese	281		49.4	374.1	4	mg/Kg	☼	189	75 - 125	1	20	
Nickel	ND		49.4	55.13		mg/Kg	☼	100	75 - 125	2	20	
Potassium	1310	F1	2470	4606	F1	mg/Kg	☼	133	75 - 125	8	20	
Selenium	ND		49.4	45.99		mg/Kg	☼	93	75 - 125	8	20	
Silver	ND		12.3	11.72		mg/Kg	☼	95	75 - 125	7	20	
Sodium	231		2470	2721		mg/Kg	☼	101	75 - 125	4	20	
Thallium	ND		49.4	49.05		mg/Kg	☼	99	75 - 125	6	20	
Vanadium	12.4		49.4	63.13		mg/Kg	☼	103	75 - 125	3	20	
Zinc	58.7	F1	49.4	113.0		mg/Kg	☼	110	75 - 125	11	20	

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 480-303862/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304077**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 303862**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.019		mg/Kg		05/27/16 07:00	05/27/16 10:43	1

**Lab Sample ID: LCDSRM 480-303862/14-A ^5**  
**Matrix: Solid**  
**Analysis Batch: 304077**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 303862**

Analyte	Spike	LCDSRM		Unit	D	%Rec	%Rec.		RPD	Limit
		Added	Result				Qualifier	Limits		
Mercury	7.10	6.51		mg/Kg		91.7	51.3 - 149.3	2	20	

**Lab Sample ID: LCSSRM 480-303862/2-B ^5**  
**Matrix: Solid**  
**Analysis Batch: 304077**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 303862**

Analyte	Spike	LCSSRM		Unit	D	%Rec	%Rec.		RPD	Limit
		Added	Result				Qualifier	Limits		
Mercury	7.10	6.40		mg/Kg		90.2	51.3 - 149.3	3		

**Lab Sample ID: 480-100685-3 MS**  
**Matrix: Solid**  
**Analysis Batch: 304077**

**Client Sample ID: RI MW-6 (4-7)**  
**Prep Type: Total/NA**  
**Prep Batch: 303862**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Mercury	ND		0.387	0.392		mg/Kg	☼	101	80 - 120			

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Method: 7471B - Mercury (CVAA) (Continued)

**Lab Sample ID: 480-100685-3 MSD**

**Matrix: Solid**

**Analysis Batch: 304077**

**Client Sample ID: RI MW-6 (4-7)**

**Prep Type: Total/NA**

**Prep Batch: 303862**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	ND		0.392	0.395		mg/Kg	☼	101	80 - 120	1	20

## Method: 9012B - Cyanide, Total and/or Amenable

**Lab Sample ID: MB 480-304245/1-A**

**Matrix: Solid**

**Analysis Batch: 304381**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 304245**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.0		mg/Kg		05/30/16 13:50	05/31/16 11:42	1

**Lab Sample ID: LCSSRM 480-304245/2-A**

**Matrix: Solid**

**Analysis Batch: 304381**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 304245**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	39.6	37.81		mg/Kg		95.5	33.3 - 195.2

**Lab Sample ID: MB 480-304591/1-A**

**Matrix: Solid**

**Analysis Batch: 304742**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 304591**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.93		mg/Kg		06/01/16 14:55	06/02/16 11:28	1

**Lab Sample ID: LCSSRM 480-304591/2-A ^2**

**Matrix: Solid**

**Analysis Batch: 304742**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 304591**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	39.6	50.46		mg/Kg		127.4	33.3 - 195.2

**Lab Sample ID: 480-100685-3 MS**

**Matrix: Solid**

**Analysis Batch: 304742**

**Client Sample ID: RI MW-6 (4-7)**

**Prep Type: Total/NA**

**Prep Batch: 304591**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	ND	F2	10.7	9.97		mg/Kg	☼	93	85 - 115

**Lab Sample ID: 480-100685-3 MSD**

**Matrix: Solid**

**Analysis Batch: 304742**

**Client Sample ID: RI MW-6 (4-7)**

**Prep Type: Total/NA**

**Prep Batch: 304591**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	ND	F2	11.8	12.20	F2	mg/Kg	☼	103	85 - 115	20	15

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## GC/MS VOA

### Analysis Batch: 303681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100685-1	RI MW-4 (0-2)	Total/NA	Solid	8260C	303699
480-100685-1 MS	RI MW-4 (0-2)	Total/NA	Solid	8260C	303699
480-100685-1 MSD	RI MW-4 (0-2)	Total/NA	Solid	8260C	303699
LCS 480-303699/1-A	Lab Control Sample	Total/NA	Solid	8260C	303699
MB 480-303699/2-A	Method Blank	Total/NA	Solid	8260C	303699

### Prep Batch: 303699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100685-1	RI MW-4 (0-2)	Total/NA	Solid	5035A	
480-100685-1 MS	RI MW-4 (0-2)	Total/NA	Solid	5035A	
480-100685-1 MSD	RI MW-4 (0-2)	Total/NA	Solid	5035A	
LCS 480-303699/1-A	Lab Control Sample	Total/NA	Solid	5035A	
MB 480-303699/2-A	Method Blank	Total/NA	Solid	5035A	

## GC/MS Semi VOA

### Prep Batch: 303734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100685-1	RI MW-4 (0-2)	Total/NA	Solid	3550C	
480-100685-2	RI MW-3 (0-2)	Total/NA	Solid	3550C	
480-100685-3	RI MW-6 (4-7)	Total/NA	Solid	3550C	
480-100685-3 MS	RI MW-6 (4-7)	Total/NA	Solid	3550C	
480-100685-3 MSD	RI MW-6 (4-7)	Total/NA	Solid	3550C	
LCS 480-303734/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-303734/1-A	Method Blank	Total/NA	Solid	3550C	

### Analysis Batch: 304364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100685-1	RI MW-4 (0-2)	Total/NA	Solid	8270D	303734
480-100685-2	RI MW-3 (0-2)	Total/NA	Solid	8270D	303734
480-100685-3	RI MW-6 (4-7)	Total/NA	Solid	8270D	303734
480-100685-3 MS	RI MW-6 (4-7)	Total/NA	Solid	8270D	303734
480-100685-3 MSD	RI MW-6 (4-7)	Total/NA	Solid	8270D	303734
LCS 480-303734/2-A	Lab Control Sample	Total/NA	Solid	8270D	303734
MB 480-303734/1-A	Method Blank	Total/NA	Solid	8270D	303734

## GC Semi VOA

### Prep Batch: 303838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100685-1	RI MW-4 (0-2)	Total/NA	Solid	3550C	
480-100685-2	RI MW-3 (0-2)	Total/NA	Solid	3550C	
480-100685-3	RI MW-6 (4-7)	Total/NA	Solid	3550C	
480-100685-3 MS	RI MW-6 (4-7)	Total/NA	Solid	3550C	
480-100685-3 MSD	RI MW-6 (4-7)	Total/NA	Solid	3550C	
LCS 480-303838/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-303838/1-A	Method Blank	Total/NA	Solid	3550C	

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## GC Semi VOA (Continued)

### Analysis Batch: 303915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100685-1	RI MW-4 (0-2)	Total/NA	Solid	8082A	303838
480-100685-2	RI MW-3 (0-2)	Total/NA	Solid	8082A	303838
480-100685-3	RI MW-6 (4-7)	Total/NA	Solid	8082A	303838
480-100685-3 MS	RI MW-6 (4-7)	Total/NA	Solid	8082A	303838
480-100685-3 MSD	RI MW-6 (4-7)	Total/NA	Solid	8082A	303838
LCS 480-303838/2-A	Lab Control Sample	Total/NA	Solid	8082A	303838
MB 480-303838/1-A	Method Blank	Total/NA	Solid	8082A	303838

## Metals

### Prep Batch: 303852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100685-1	RI MW-4 (0-2)	Total/NA	Solid	3050B	
480-100685-2	RI MW-3 (0-2)	Total/NA	Solid	3050B	
480-100685-3	RI MW-6 (4-7)	Total/NA	Solid	3050B	
480-100685-3 MS	RI MW-6 (4-7)	Total/NA	Solid	3050B	
480-100685-3 MSD	RI MW-6 (4-7)	Total/NA	Solid	3050B	
LCDSRM 480-303852/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 480-303852/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-303852/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 303862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100685-1	RI MW-4 (0-2)	Total/NA	Solid	7471B	
480-100685-2	RI MW-3 (0-2)	Total/NA	Solid	7471B	
480-100685-3	RI MW-6 (4-7)	Total/NA	Solid	7471B	
480-100685-3 MS	RI MW-6 (4-7)	Total/NA	Solid	7471B	
480-100685-3 MSD	RI MW-6 (4-7)	Total/NA	Solid	7471B	
LCDSRM 480-303862/14-A	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-303862/2-B	Lab Control Sample	Total/NA	Solid	7471B	
MB 480-303862/1-B	Method Blank	Total/NA	Solid	7471B	

### Analysis Batch: 304077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100685-1	RI MW-4 (0-2)	Total/NA	Solid	7471B	303862
480-100685-2	RI MW-3 (0-2)	Total/NA	Solid	7471B	303862
480-100685-3	RI MW-6 (4-7)	Total/NA	Solid	7471B	303862
480-100685-3 MS	RI MW-6 (4-7)	Total/NA	Solid	7471B	303862
480-100685-3 MSD	RI MW-6 (4-7)	Total/NA	Solid	7471B	303862
LCDSRM 480-303862/14-A	Lab Control Sample Dup	Total/NA	Solid	7471B	303862
LCSSRM 480-303862/2-B	Lab Control Sample	Total/NA	Solid	7471B	303862
MB 480-303862/1-B	Method Blank	Total/NA	Solid	7471B	303862

### Analysis Batch: 304475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100685-1	RI MW-4 (0-2)	Total/NA	Solid	6010C	303852
480-100685-2	RI MW-3 (0-2)	Total/NA	Solid	6010C	303852
480-100685-3	RI MW-6 (4-7)	Total/NA	Solid	6010C	303852
480-100685-3 MS	RI MW-6 (4-7)	Total/NA	Solid	6010C	303852
480-100685-3 MSD	RI MW-6 (4-7)	Total/NA	Solid	6010C	303852

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Metals (Continued)

### Analysis Batch: 304475 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCDSRM 480-303852/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	303852
LCSSRM 480-303852/2-A	Lab Control Sample	Total/NA	Solid	6010C	303852
MB 480-303852/1-A	Method Blank	Total/NA	Solid	6010C	303852

## General Chemistry

### Analysis Batch: 303708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100685-1	RI MW-4 (0-2)	Total/NA	Solid	Moisture	
480-100685-1 MS	RI MW-4 (0-2)	Total/NA	Solid	Moisture	
480-100685-1 MSD	RI MW-4 (0-2)	Total/NA	Solid	Moisture	
480-100685-2	RI MW-3 (0-2)	Total/NA	Solid	Moisture	
480-100685-3	RI MW-6 (4-7)	Total/NA	Solid	Moisture	
480-100685-3 MS	RI MW-6 (4-7)	Total/NA	Solid	Moisture	
480-100685-3 MSD	RI MW-6 (4-7)	Total/NA	Solid	Moisture	

### Prep Batch: 304245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100685-1	RI MW-4 (0-2)	Total/NA	Solid	9012B	
480-100685-2	RI MW-3 (0-2)	Total/NA	Solid	9012B	
LCSSRM 480-304245/2-A	Lab Control Sample	Total/NA	Solid	9012B	
MB 480-304245/1-A	Method Blank	Total/NA	Solid	9012B	

### Analysis Batch: 304381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100685-1	RI MW-4 (0-2)	Total/NA	Solid	9012B	304245
480-100685-2	RI MW-3 (0-2)	Total/NA	Solid	9012B	304245
LCSSRM 480-304245/2-A	Lab Control Sample	Total/NA	Solid	9012B	304245
MB 480-304245/1-A	Method Blank	Total/NA	Solid	9012B	304245

### Prep Batch: 304591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100685-3	RI MW-6 (4-7)	Total/NA	Solid	9012B	
480-100685-3 MS	RI MW-6 (4-7)	Total/NA	Solid	9012B	
480-100685-3 MSD	RI MW-6 (4-7)	Total/NA	Solid	9012B	
LCSSRM 480-304591/2-A ^2	Lab Control Sample	Total/NA	Solid	9012B	
MB 480-304591/1-A	Method Blank	Total/NA	Solid	9012B	

### Analysis Batch: 304742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100685-3	RI MW-6 (4-7)	Total/NA	Solid	9012B	304591
480-100685-3 MS	RI MW-6 (4-7)	Total/NA	Solid	9012B	304591
480-100685-3 MSD	RI MW-6 (4-7)	Total/NA	Solid	9012B	304591
LCSSRM 480-304591/2-A ^2	Lab Control Sample	Total/NA	Solid	9012B	304591
MB 480-304591/1-A	Method Blank	Total/NA	Solid	9012B	304591



# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

**Client Sample ID: RI MW-4 (0-2)**

**Date Collected: 05/25/16 09:45**

**Date Received: 05/25/16 16:30**

**Lab Sample ID: 480-100685-1**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

**Client Sample ID: RI MW-4 (0-2)**

**Date Collected: 05/25/16 09:45**

**Date Received: 05/25/16 16:30**

**Lab Sample ID: 480-100685-1**

**Matrix: Solid**

**Percent Solids: 85.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			303699	05/25/16 20:39	NMD1	TAL BUF
Total/NA	Analysis	8260C		1	303681	05/26/16 02:50	NMD1	TAL BUF
Total/NA	Prep	3550C			303734	05/26/16 07:45	JLS	TAL BUF
Total/NA	Analysis	8270D		1	304364	05/31/16 14:54	DMR	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/27/16 02:36	KS	TAL BUF
Total/NA	Prep	3050B			303852	05/31/16 10:33	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	304475	05/31/16 11:12	LMH	TAL BUF
Total/NA	Prep	7471B			303862	05/27/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:49	JRK	TAL BUF
Total/NA	Prep	9012B			304245	05/30/16 13:50	MDL	TAL BUF
Total/NA	Analysis	9012B		1	304381	05/31/16 12:15	KMF	TAL BUF

**Client Sample ID: RI MW-3 (0-2)**

**Date Collected: 05/25/16 10:30**

**Date Received: 05/25/16 16:30**

**Lab Sample ID: 480-100685-2**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

**Client Sample ID: RI MW-3 (0-2)**

**Date Collected: 05/25/16 10:30**

**Date Received: 05/25/16 16:30**

**Lab Sample ID: 480-100685-2**

**Matrix: Solid**

**Percent Solids: 85.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			303734	05/26/16 07:45	JLS	TAL BUF
Total/NA	Analysis	8270D		1	304364	05/31/16 15:21	DMR	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/27/16 02:52	KS	TAL BUF
Total/NA	Prep	3050B			303852	05/31/16 10:33	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	304475	05/31/16 11:15	LMH	TAL BUF
Total/NA	Prep	7471B			303862	05/27/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:50	JRK	TAL BUF
Total/NA	Prep	9012B			304245	05/30/16 13:50	MDL	TAL BUF
Total/NA	Analysis	9012B		1	304381	05/31/16 12:14	KMF	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

**Client Sample ID: RI MW-6 (4-7)**

**Lab Sample ID: 480-100685-3**

**Date Collected: 05/25/16 13:30**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	303708	05/25/16 21:40	CMK	TAL BUF

**Client Sample ID: RI MW-6 (4-7)**

**Lab Sample ID: 480-100685-3**

**Date Collected: 05/25/16 13:30**

**Matrix: Solid**

**Date Received: 05/25/16 16:30**

**Percent Solids: 82.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			303734	05/26/16 07:45	JLS	TAL BUF
Total/NA	Analysis	8270D		1	304364	05/31/16 15:48	DMR	TAL BUF
Total/NA	Prep	3550C			303838	05/26/16 12:03	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	303915	05/27/16 03:08	KS	TAL BUF
Total/NA	Prep	3050B			303852	05/31/16 10:33	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	304475	05/31/16 11:19	LMH	TAL BUF
Total/NA	Prep	7471B			303862	05/27/16 07:00	JRK	TAL BUF
Total/NA	Analysis	7471B		1	304077	05/27/16 10:52	JRK	TAL BUF
Total/NA	Prep	9012B			304591	06/01/16 14:55	ZRJ	TAL BUF
Total/NA	Analysis	9012B		1	304742	06/02/16 11:34	KMF	TAL BUF

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Certification Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

## Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

- 1
- 2
- 3
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- 5
- 6
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- 10
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- 13
- 14
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# Method Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Sample Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100685-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-100685-1	RI MW-4 (0-2)	Solid	05/25/16 09:45	05/25/16 16:30
480-100685-2	RI MW-3 (0-2)	Solid	05/25/16 10:30	05/25/16 16:30
480-100685-3	RI MW-6 (4-7)	Solid	05/25/16 13:30	05/25/16 16:30

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# Chain of Custody Record

Temperature on Receipt \_\_\_\_\_

Drinking Water? Yes  No

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client <b>Turnkey</b>		Project Manager <b>Chris Boron</b>		Date <b>5/25/16</b>	Chain of Custody Number <b>190629</b>
Address <b>2558 Hamburg Turnpike</b>		Telephone Number (Area Code)/Fax Number <b>716 856-0599</b>		Lab Number	
City <b>Buffalo</b>	State <b>NY</b>	Zip Code <b>14218</b>	Site Contact <b>Paul W Worthman</b>	Lab Contact <b>B Fischer</b>	Page <u>1</u> of <u>1</u>

Project Name and Location (State)  
**791 Washington St Site**

Carrier/Waybill Number

Analysis (Attach list if more space is needed)

Contract/Purchase Order/Quote No.  
**0092-216-001-002-002**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives						TCL SVOC	TAL Metals plus Cyanide	PCIBs (TCL)	VOCS (TCL)	Special Instructions/ Conditions of Receipt				
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH									
<b>RI MW-4 (0-2) <sup>VOC</sup> MS/MSD</b>	<b>5/25/16</b>	<b>945</b>				X	X										X	X	X	X	<b>MS/MSD on VOC only</b>
<b>RI MW-3 (0-2)</b>	<b>ii</b>	<b>1030</b>				X	X										X	X	X		
<b>RI MW-6 (4-7) MS/MSD</b>	<b>2 ii</b>	<b>1330</b>				X	X										X	X	X		
<del><b>RI MW-6 (4-7) <sup>VOC</sup> MS/MSD</b></del>																					

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480-100685 Chain of Custody

Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal:  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:  24 Hours  48 Hours  7 Days  14 Days  21 Days  Other **standard**

QC Requirements (Specify)

1. Relinquished By <b>Paul W Worthman</b>	Date <b>5/25/16</b>	Time <b>1600</b>	1. Received By <b>Christopher Boron</b>	Date <b>5/25/16</b>	Time <b>1600</b>
2. Relinquished By <b>Christopher Boron</b>	Date <b>5/25/16</b>	Time <b>1630</b>	2. Received By <b>Cworthman</b>	Date <b>5/25/16</b>	Time <b>1630</b>
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6/3/2016



## Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-100685-1

**Login Number: 100685**

**List Number: 1**

**Creator: Janish, Carl M**

**List Source: TestAmerica Buffalo**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BMTK
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-100861-1

Client Project/Site: Benchmark - 791 Washington St., Buffalo

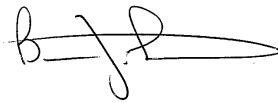
For:

Turnkey Environmental Restoration, LLC

2558 Hamburg Turnpike

Lackawanna, New York 14218

Attn: Mr. Christopher Z Boron



Authorized for release by:

6/7/2016 3:50:47 PM

Brian Fischer, Manager of Project Management

(716)504-9835

[brian.fischer@testamericainc.com](mailto:brian.fischer@testamericainc.com)



### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

### General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Job ID: 480-100861-1

### Laboratory: TestAmerica Buffalo

#### Narrative

#### Job Narrative 480-100861-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/27/2016 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

#### Receipt Exceptions

Received extra sample point not listed on COC. R1 SB-16 (0-5).

#### GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-304439 recovered above the upper control limit for Carbon tetrachloride and Trichlorofluoromethane. The sample associated with this CCV was non-detect for the affected analytes; therefore, the data has been reported. The following sample is impacted: RI MW-2 (0-2) (480-100861-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-305196 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether and Benzaldehyde. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for these analytes, the data have been reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-305196 recovered above the upper control limit for 4-Nitrophenol and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: RI MW-5 (6-8) (480-100861-2), BLIND DUP 2 (480-100861-3), RI MW-8 (0-2) (480-100861-4), RI MW-7 (2-4) (480-100861-5), RI MW-9 (0-2) (480-100861-6), RI MW-10 (2-4) (480-100861-7), RI SB-16 (0-5) (480-100861-8), (480-100861-B-2-D MS) and (480-100861-B-2-E MSD).

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 480-304908 and analytical batch 480-305196 recovered outside control limits for the following analytes: 4-Nitrophenol. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The initial calibration curve analyzed in batch 480-299919 was outside method criteria for the following analyte(s): 2,4-Dinitrophenol. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered an estimated concentration.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method(s) 8082A: All primary data for analytical batch 304335 is reported from the ZB-5 column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 6010C: The low level continuing calibration verification (CCVL 480-304725/26) recovered above the upper control limit for total Iron. The samples RI MW-5 (6-8) (480-100861-2), BLIND DUP 2 (480-100861-3), RI MW-8 (0-2) (480-100861-4), RI MW-7 (2-4) (480-100861-5), RI MW-9 (0-2) (480-100861-6), RI MW-10 (2-4) (480-100861-7), RI SB-16 (0-5) (480-100861-8), (LCDSRM 480-304383/3-), (LCSSRM 480-304383/2-) and (MB 480-304383/1-A) associated with this CCVL were either ND or less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed.

## Case Narrative

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

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### Job ID: 480-100861-1 (Continued)

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#### Laboratory: TestAmerica Buffalo (Continued)

Method(s) 6010C: The continuing calibration blank (CCB 480-304725/25) for analytical batch 480-304725 contained total Iron above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method(s) 6010C: The Serial Dilution (480-100861-B-6-C SD) in batch 480-304722, exhibited results outside the quality control limits for Total Zinc. However, the Post Digestion Spike was compliant so no corrective action was necessary

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Client Sample ID: RI MW-2 (0-2)

Lab Sample ID: 480-100861-1

No Detections.

## Client Sample ID: RI MW-5 (6-8)

Lab Sample ID: 480-100861-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	16200		13.4		mg/Kg	1	☼	6010C	Total/NA
Barium	102		0.67		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.67		0.27		mg/Kg	1	☼	6010C	Total/NA
Calcium	40300		67.0		mg/Kg	1	☼	6010C	Total/NA
Chromium	21.2		0.67		mg/Kg	1	☼	6010C	Total/NA
Cobalt	7.7		0.67		mg/Kg	1	☼	6010C	Total/NA
Copper	13.9		1.3		mg/Kg	1	☼	6010C	Total/NA
Iron	16900	^	13.4		mg/Kg	1	☼	6010C	Total/NA
Lead	10.2		1.3		mg/Kg	1	☼	6010C	Total/NA
Magnesium	18400		26.8		mg/Kg	1	☼	6010C	Total/NA
Manganese	344		0.27		mg/Kg	1	☼	6010C	Total/NA
Nickel	19.8		6.7		mg/Kg	1	☼	6010C	Total/NA
Potassium	5580		40.2		mg/Kg	1	☼	6010C	Total/NA
Sodium	517		188		mg/Kg	1	☼	6010C	Total/NA
Vanadium	30.2		0.67		mg/Kg	1	☼	6010C	Total/NA
Zinc	55.3		2.5		mg/Kg	1	☼	6010C	Total/NA

## Client Sample ID: BLIND DUP 2

Lab Sample ID: 480-100861-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	13400		12.9		mg/Kg	1	☼	6010C	Total/NA
Barium	99.3		0.64		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.55		0.26		mg/Kg	1	☼	6010C	Total/NA
Calcium	34000		64.3		mg/Kg	1	☼	6010C	Total/NA
Chromium	17.4		0.64		mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.9		0.64		mg/Kg	1	☼	6010C	Total/NA
Copper	10.1		1.3		mg/Kg	1	☼	6010C	Total/NA
Iron	13400	^	12.9		mg/Kg	1	☼	6010C	Total/NA
Lead	7.6		1.3		mg/Kg	1	☼	6010C	Total/NA
Magnesium	15700		25.7		mg/Kg	1	☼	6010C	Total/NA
Manganese	284		0.26		mg/Kg	1	☼	6010C	Total/NA
Nickel	15.1		6.4		mg/Kg	1	☼	6010C	Total/NA
Potassium	4850		38.6		mg/Kg	1	☼	6010C	Total/NA
Sodium	441		180		mg/Kg	1	☼	6010C	Total/NA
Vanadium	25.0		0.64		mg/Kg	1	☼	6010C	Total/NA
Zinc	64.5		2.6		mg/Kg	1	☼	6010C	Total/NA

## Client Sample ID: RI MW-8 (0-2)

Lab Sample ID: 480-100861-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	3340		12.3		mg/Kg	1	☼	6010C	Total/NA
Barium	18.3		0.62		mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.28		0.25		mg/Kg	1	☼	6010C	Total/NA
Calcium	47200		61.5		mg/Kg	1	☼	6010C	Total/NA
Chromium	6.0		0.62		mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.1		0.62		mg/Kg	1	☼	6010C	Total/NA
Copper	5.2		1.2		mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Client Sample ID: RI MW-8 (0-2) (Continued)

Lab Sample ID: 480-100861-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	5910	^	12.3		mg/Kg	1	☼	6010C	Total/NA
Lead	7.6		1.2		mg/Kg	1	☼	6010C	Total/NA
Magnesium	24800		24.6		mg/Kg	1	☼	6010C	Total/NA
Manganese	234		0.25		mg/Kg	1	☼	6010C	Total/NA
Potassium	1130		36.9		mg/Kg	1	☼	6010C	Total/NA
Sodium	223		172		mg/Kg	1	☼	6010C	Total/NA
Vanadium	11.0		0.62		mg/Kg	1	☼	6010C	Total/NA
Zinc	61.4		2.4		mg/Kg	1	☼	6010C	Total/NA

## Client Sample ID: RI MW-7 (2-4)

Lab Sample ID: 480-100861-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	11200		11.8		mg/Kg	1	☼	6010C	Total/NA
Barium	80.3		0.59		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.45		0.24		mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.27		0.24		mg/Kg	1	☼	6010C	Total/NA
Calcium	60800		58.8		mg/Kg	1	☼	6010C	Total/NA
Chromium	14.8		0.59		mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.6		0.59		mg/Kg	1	☼	6010C	Total/NA
Copper	10		1.2		mg/Kg	1	☼	6010C	Total/NA
Iron	12800	^	11.8		mg/Kg	1	☼	6010C	Total/NA
Lead	12.8		1.2		mg/Kg	1	☼	6010C	Total/NA
Magnesium	28800		23.5		mg/Kg	1	☼	6010C	Total/NA
Manganese	392		0.24		mg/Kg	1	☼	6010C	Total/NA
Nickel	13.2		5.9		mg/Kg	1	☼	6010C	Total/NA
Potassium	4070		35.3		mg/Kg	1	☼	6010C	Total/NA
Sodium	275		165		mg/Kg	1	☼	6010C	Total/NA
Vanadium	22.5		0.59		mg/Kg	1	☼	6010C	Total/NA
Zinc	70.8		2.4		mg/Kg	1	☼	6010C	Total/NA

## Client Sample ID: RI MW-9 (0-2)

Lab Sample ID: 480-100861-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	35	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Pyrene	30	J	190	22	ug/Kg	1	☼	8270D	Total/NA
Aluminum	3460		11.2		mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.7		2.2		mg/Kg	1	☼	6010C	Total/NA
Barium	66.0		0.56		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.23		0.22		mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.23		0.22		mg/Kg	1	☼	6010C	Total/NA
Calcium	35700		56.1		mg/Kg	1	☼	6010C	Total/NA
Chromium	7.9		0.56		mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.8		0.56		mg/Kg	1	☼	6010C	Total/NA
Copper	9.9		1.1		mg/Kg	1	☼	6010C	Total/NA
Iron	10500	^	11.2		mg/Kg	1	☼	6010C	Total/NA
Lead	22.1		1.1		mg/Kg	1	☼	6010C	Total/NA
Magnesium	16600		22.4		mg/Kg	1	☼	6010C	Total/NA
Manganese	179		0.22		mg/Kg	1	☼	6010C	Total/NA
Nickel	6.8		5.6		mg/Kg	1	☼	6010C	Total/NA
Potassium	949		33.7		mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Client Sample ID: RI MW-9 (0-2) (Continued)

Lab Sample ID: 480-100861-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	204		157		mg/Kg	1	☼	6010C	Total/NA
Vanadium	13.9		0.56		mg/Kg	1	☼	6010C	Total/NA
Zinc	58.7	F1 F2	2.3		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.025		0.022		mg/Kg	1	☼	7471B	Total/NA

## Client Sample ID: RI MW-10 (2-4)

Lab Sample ID: 480-100861-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	10400		10.8		mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.2		2.2		mg/Kg	1	☼	6010C	Total/NA
Barium	60.4		0.54		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.42		0.22		mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.29		0.22		mg/Kg	1	☼	6010C	Total/NA
Calcium	59100		54.1		mg/Kg	1	☼	6010C	Total/NA
Chromium	13.8		0.54		mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.3		0.54		mg/Kg	1	☼	6010C	Total/NA
Copper	8.9		1.1		mg/Kg	1	☼	6010C	Total/NA
Iron	15800	^	10.8		mg/Kg	1	☼	6010C	Total/NA
Lead	13.5		1.1		mg/Kg	1	☼	6010C	Total/NA
Magnesium	29200		21.6		mg/Kg	1	☼	6010C	Total/NA
Manganese	354		0.22		mg/Kg	1	☼	6010C	Total/NA
Nickel	13.0		5.4		mg/Kg	1	☼	6010C	Total/NA
Potassium	3630		32.4		mg/Kg	1	☼	6010C	Total/NA
Sodium	225		151		mg/Kg	1	☼	6010C	Total/NA
Vanadium	21.2		0.54		mg/Kg	1	☼	6010C	Total/NA
Zinc	63.0		2.3		mg/Kg	1	☼	6010C	Total/NA
Cyanide, Total	7.4		1.1		mg/Kg	1	☼	9012B	Total/NA

## Client Sample ID: RI SB-16 (0-5)

Lab Sample ID: 480-100861-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	8510		10.9		mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.4		2.2		mg/Kg	1	☼	6010C	Total/NA
Barium	36.3		0.55		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.37		0.22		mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.24		0.22		mg/Kg	1	☼	6010C	Total/NA
Calcium	17200		54.6		mg/Kg	1	☼	6010C	Total/NA
Chromium	12.5		0.55		mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.8		0.55		mg/Kg	1	☼	6010C	Total/NA
Copper	7.6		1.1		mg/Kg	1	☼	6010C	Total/NA
Iron	11500	^	10.9		mg/Kg	1	☼	6010C	Total/NA
Lead	14.3		1.1		mg/Kg	1	☼	6010C	Total/NA
Magnesium	6240		21.8		mg/Kg	1	☼	6010C	Total/NA
Manganese	221		0.22		mg/Kg	1	☼	6010C	Total/NA
Nickel	9.1		5.5		mg/Kg	1	☼	6010C	Total/NA
Potassium	1590		32.8		mg/Kg	1	☼	6010C	Total/NA
Sodium	1180		153		mg/Kg	1	☼	6010C	Total/NA
Vanadium	21.9		0.55		mg/Kg	1	☼	6010C	Total/NA
Zinc	70.0		2.3		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.037		0.021		mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-2 (0-2)**

**Lab Sample ID: 480-100861-1**

**Date Collected: 05/27/16 11:00**

**Matrix: Solid**

**Date Received: 05/27/16 17:30**

**Percent Solids: 89.3**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Acetone	ND		25	4.2	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Benzene	ND		5.0	0.24	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Bromoform	ND		5.0	2.5	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Bromomethane	ND		5.0	0.45	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Carbon disulfide	ND		5.0	2.5	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Chlorobenzene	ND		5.0	0.66	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Chloroethane	ND		5.0	1.1	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Chloroform	ND		5.0	0.31	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Chloromethane	ND		5.0	0.30	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Cyclohexane	ND		5.0	0.70	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Ethylbenzene	ND		5.0	0.34	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Methyl acetate	ND		5.0	3.0	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Methylene Chloride	ND		5.0	2.3	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Styrene	ND		5.0	0.25	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Toluene	ND		5.0	0.38	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
trans-1,2-Dichloroethene	ND		5.0	0.51	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Trichloroethene	ND		5.0	1.1	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Vinyl chloride	ND		5.0	0.61	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1
Xylenes, Total	ND		10	0.84	ug/Kg	☼	05/28/16 10:35	06/01/16 00:32	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-2 (0-2)**

**Lab Sample ID: 480-100861-1**

**Date Collected: 05/27/16 11:00**

**Matrix: Solid**

**Date Received: 05/27/16 17:30**

**Percent Solids: 89.3**

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	111		64 - 126	05/28/16 10:35	06/01/16 00:32	1
4-Bromofluorobenzene (Surr)	107		72 - 126	05/28/16 10:35	06/01/16 00:32	1
Dibromofluoromethane (Surr)	109		60 - 140	05/28/16 10:35	06/01/16 00:32	1
Toluene-d8 (Surr)	100		71 - 125	05/28/16 10:35	06/01/16 00:32	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-5 (6-8)**

**Lab Sample ID: 480-100861-2**

**Date Collected: 05/26/16 09:30**

**Matrix: Solid**

**Date Received: 05/27/16 17:30**

**Percent Solids: 76.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		220	33	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
bis (2-chloroisopropyl) ether	ND		220	44	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
2,4,5-Trichlorophenol	ND		220	60	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
2,4,6-Trichlorophenol	ND		220	44	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
2,4-Dichlorophenol	ND		220	23	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
2,4-Dimethylphenol	ND		220	54	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
2,4-Dinitrophenol	ND		2200	1000	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
2,4-Dinitrotoluene	ND		220	46	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
2,6-Dinitrotoluene	ND		220	26	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
2-Chloronaphthalene	ND		220	37	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
2-Chlorophenol	ND		220	40	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
2-Methylphenol	ND		220	26	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
2-Methylnaphthalene	ND		220	44	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
2-Nitroaniline	ND		430	33	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
2-Nitrophenol	ND		220	63	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
3,3'-Dichlorobenzidine	ND		430	260	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
3-Nitroaniline	ND		430	61	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
4,6-Dinitro-2-methylphenol	ND		430	220	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
4-Bromophenyl phenyl ether	ND		220	31	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
4-Chloro-3-methylphenol	ND		220	55	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
4-Chloroaniline	ND		220	55	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
4-Chlorophenyl phenyl ether	ND		220	27	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
4-Methylphenol	ND		430	26	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
4-Nitroaniline	ND		430	120	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
4-Nitrophenol	ND	* F1	430	160	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Acenaphthene	ND		220	33	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Acenaphthylene	ND		220	29	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Acetophenone	ND		220	30	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Anthracene	ND		220	55	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Atrazine	ND		220	77	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Benzaldehyde	ND		220	180	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Benzo[a]anthracene	ND		220	22	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Benzo[a]pyrene	ND		220	33	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Benzo[b]fluoranthene	ND		220	35	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Benzo[g,h,i]perylene	ND		220	23	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Benzo[k]fluoranthene	ND		220	29	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Bis(2-chloroethoxy)methane	ND		220	47	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Bis(2-chloroethyl)ether	ND		220	29	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Bis(2-ethylhexyl) phthalate	ND		220	76	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Butyl benzyl phthalate	ND		220	37	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Caprolactam	ND		220	67	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Carbazole	ND		220	26	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Chrysene	ND		220	50	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Dibenz(a,h)anthracene	ND		220	39	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Di-n-butyl phthalate	ND		220	38	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Di-n-octyl phthalate	ND		220	26	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Dibenzofuran	ND		220	26	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Diethyl phthalate	ND		220	29	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1
Dimethyl phthalate	ND		220	26	ug/Kg	*	06/03/16 07:31	06/06/16 14:05	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-5 (6-8)**

**Lab Sample ID: 480-100861-2**

Date Collected: 05/26/16 09:30

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 76.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		220	23	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
Fluorene	ND		220	26	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
Hexachlorobenzene	ND		220	30	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
Hexachlorobutadiene	ND		220	33	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
Hexachlorocyclopentadiene	ND		220	30	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
Hexachloroethane	ND		220	29	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
Indeno[1,2,3-cd]pyrene	ND		220	27	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
Isophorone	ND		220	47	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
N-Nitrosodi-n-propylamine	ND		220	38	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
N-Nitrosodiphenylamine	ND		220	180	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
Naphthalene	ND		220	29	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
Nitrobenzene	ND		220	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
Pentachlorophenol	ND		430	220	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
Phenanthrene	ND		220	33	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
Phenol	ND		220	34	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
Pyrene	ND		220	26	ug/Kg	☼	06/03/16 07:31	06/06/16 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	87		34 - 132				06/03/16 07:31	06/06/16 14:05	1
Phenol-d5 (Surr)	75		11 - 120				06/03/16 07:31	06/06/16 14:05	1
p-Terphenyl-d14 (Surr)	93		65 - 153				06/03/16 07:31	06/06/16 14:05	1
2,4,6-Tribromophenol (Surr)	111		39 - 146				06/03/16 07:31	06/06/16 14:05	1
2-Fluorobiphenyl	89		37 - 120				06/03/16 07:31	06/06/16 14:05	1
2-Fluorophenol (Surr)	77		18 - 120				06/03/16 07:31	06/06/16 14:05	1

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.057	mg/Kg	☼	05/31/16 11:25	05/31/16 19:47	1
PCB-1221	ND		0.29	0.057	mg/Kg	☼	05/31/16 11:25	05/31/16 19:47	1
PCB-1232	ND		0.29	0.057	mg/Kg	☼	05/31/16 11:25	05/31/16 19:47	1
PCB-1242	ND		0.29	0.057	mg/Kg	☼	05/31/16 11:25	05/31/16 19:47	1
PCB-1248	ND		0.29	0.057	mg/Kg	☼	05/31/16 11:25	05/31/16 19:47	1
PCB-1254	ND		0.29	0.14	mg/Kg	☼	05/31/16 11:25	05/31/16 19:47	1
PCB-1260	ND		0.29	0.14	mg/Kg	☼	05/31/16 11:25	05/31/16 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	114		60 - 154				05/31/16 11:25	05/31/16 19:47	1
Tetrachloro-p-xylene	109		60 - 154				05/31/16 11:25	05/31/16 19:47	1
DCB Decachlorobiphenyl	126		65 - 174				05/31/16 11:25	05/31/16 19:47	1
DCB Decachlorobiphenyl	112		65 - 174				05/31/16 11:25	05/31/16 19:47	1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16200		13.4		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Antimony	ND		20.1		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Arsenic	ND		2.7		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Barium	102		0.67		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Beryllium	0.67		0.27		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Cadmium	ND		0.27		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Calcium	40300		67.0		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-5 (6-8)**

**Lab Sample ID: 480-100861-2**

Date Collected: 05/26/16 09:30

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 76.3

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	21.2		0.67		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Cobalt	7.7		0.67		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Copper	13.9		1.3		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Iron	16900	^	13.4		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Lead	10.2		1.3		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Magnesium	18400		26.8		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Manganese	344		0.27		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Nickel	19.8		6.7		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Potassium	5580		40.2		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Selenium	ND		5.0		mg/Kg	☼	06/02/16 11:55	06/03/16 10:29	1
Silver	ND		0.80		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Sodium	517		188		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Thallium	ND		8.0		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Vanadium	30.2		0.67		mg/Kg	☼	06/01/16 08:50	06/02/16 08:25	1
Zinc	55.3		2.5		mg/Kg	☼	06/02/16 11:55	06/03/16 10:29	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.025		mg/Kg	☼	06/03/16 10:05	06/03/16 16:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.3		mg/Kg	☼	06/01/16 14:55	06/02/16 11:41	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: BLIND DUP 2**

**Lab Sample ID: 480-100861-3**

**Date Collected: 05/26/16 08:00**

**Matrix: Solid**

**Date Received: 05/27/16 17:30**

**Percent Solids: 78.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		210	31	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
2,4,5-Trichlorophenol	ND		210	57	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
2,4,6-Trichlorophenol	ND		210	42	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
2,4-Dimethylphenol	ND		210	51	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
2,4-Dinitrophenol	ND		2100	970	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
2-Chloronaphthalene	ND		210	35	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
2-Chlorophenol	ND		210	38	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
2-Methylphenol	ND		210	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
2-Methylnaphthalene	ND		210	42	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
2-Nitroaniline	ND		410	31	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
2-Nitrophenol	ND		210	60	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
3,3'-Dichlorobenzidine	ND		410	250	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
3-Nitroaniline	ND		410	58	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
4,6-Dinitro-2-methylphenol	ND		410	210	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
4-Chloro-3-methylphenol	ND		210	52	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
4-Chloroaniline	ND		210	52	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
4-Methylphenol	ND		410	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
4-Nitroaniline	ND		410	110	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
4-Nitrophenol	ND *		410	150	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Acenaphthene	ND		210	31	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Acenaphthylene	ND		210	27	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Acetophenone	ND		210	29	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Anthracene	ND		210	52	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Atrazine	ND		210	73	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Benzaldehyde	ND		210	170	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Benzo[a]pyrene	ND		210	31	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Benzo[b]fluoranthene	ND		210	33	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Benzo[g,h,i]perylene	ND		210	22	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Benzo[k]fluoranthene	ND		210	27	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Bis(2-chloroethoxy)methane	ND		210	45	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Bis(2-ethylhexyl) phthalate	ND		210	72	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Butyl benzyl phthalate	ND		210	35	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Caprolactam	ND		210	63	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Carbazole	ND		210	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Chrysene	ND		210	47	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Di-n-octyl phthalate	ND		210	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Dibenzofuran	ND		210	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Dimethyl phthalate	ND		210	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: BLIND DUP 2**

**Lab Sample ID: 480-100861-3**

Date Collected: 05/26/16 08:00

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 78.7

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		210	22	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Fluorene	ND		210	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Hexachlorobenzene	ND		210	29	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Hexachlorocyclopentadiene	ND		210	29	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Hexachloroethane	ND		210	27	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Isophorone	ND		210	45	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Naphthalene	ND		210	27	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Nitrobenzene	ND		210	24	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Pentachlorophenol	ND		410	210	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Phenanthrene	ND		210	31	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Phenol	ND		210	32	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Pyrene	ND		210	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	81		34 - 132				06/03/16 07:31	06/06/16 14:32	1
Phenol-d5 (Surr)	69		11 - 120				06/03/16 07:31	06/06/16 14:32	1
p-Terphenyl-d14 (Surr)	87		65 - 153				06/03/16 07:31	06/06/16 14:32	1
2,4,6-Tribromophenol (Surr)	104		39 - 146				06/03/16 07:31	06/06/16 14:32	1
2-Fluorobiphenyl	83		37 - 120				06/03/16 07:31	06/06/16 14:32	1
2-Fluorophenol (Surr)	66		18 - 120				06/03/16 07:31	06/06/16 14:32	1

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.052	mg/Kg	☼	05/31/16 11:25	05/31/16 20:05	1
PCB-1221	ND		0.27	0.052	mg/Kg	☼	05/31/16 11:25	05/31/16 20:05	1
PCB-1232	ND		0.27	0.052	mg/Kg	☼	05/31/16 11:25	05/31/16 20:05	1
PCB-1242	ND		0.27	0.052	mg/Kg	☼	05/31/16 11:25	05/31/16 20:05	1
PCB-1248	ND		0.27	0.052	mg/Kg	☼	05/31/16 11:25	05/31/16 20:05	1
PCB-1254	ND		0.27	0.12	mg/Kg	☼	05/31/16 11:25	05/31/16 20:05	1
PCB-1260	ND		0.27	0.12	mg/Kg	☼	05/31/16 11:25	05/31/16 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	109		60 - 154				05/31/16 11:25	05/31/16 20:05	1
Tetrachloro-p-xylene	104		60 - 154				05/31/16 11:25	05/31/16 20:05	1
DCB Decachlorobiphenyl	118		65 - 174				05/31/16 11:25	05/31/16 20:05	1
DCB Decachlorobiphenyl	105		65 - 174				05/31/16 11:25	05/31/16 20:05	1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13400		12.9		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Antimony	ND		19.3		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Arsenic	ND		2.6		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Barium	99.3		0.64		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Beryllium	0.55		0.26		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Cadmium	ND		0.26		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Calcium	34000		64.3		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: BLIND DUP 2**

**Lab Sample ID: 480-100861-3**

Date Collected: 05/26/16 08:00

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 78.7

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	17.4		0.64		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Cobalt	5.9		0.64		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Copper	10.1		1.3		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Iron	13400	^	12.9		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Lead	7.6		1.3		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Magnesium	15700		25.7		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Manganese	284		0.26		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Nickel	15.1		6.4		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Potassium	4850		38.6		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Selenium	ND		5.2		mg/Kg	☼	06/02/16 11:55	06/03/16 10:33	1
Silver	ND		0.77		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Sodium	441		180		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Thallium	ND		7.7		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Vanadium	25.0		0.64		mg/Kg	☼	06/01/16 08:50	06/02/16 08:29	1
Zinc	64.5		2.6		mg/Kg	☼	06/02/16 11:55	06/03/16 10:33	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.024		mg/Kg	☼	06/03/16 10:05	06/03/16 16:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.2		mg/Kg	☼	06/01/16 14:55	06/02/16 11:46	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-8 (0-2)**

**Lab Sample ID: 480-100861-4**

**Date Collected: 05/26/16 09:45**

**Matrix: Solid**

**Date Received: 05/27/16 17:30**

**Percent Solids: 85.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
2,4,6-Trichlorophenol	ND		190	39	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
2,4-Dichlorophenol	ND		190	21	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
2,4-Dimethylphenol	ND		190	47	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
2,4-Dinitrophenol	ND		1900	890	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
2,4-Dinitrotoluene	ND		190	40	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
2-Methylphenol	ND		190	23	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
2-Methylnaphthalene	ND		190	39	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
2-Nitroaniline	ND		380	28	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
2-Nitrophenol	ND		190	55	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
4,6-Dinitro-2-methylphenol	ND		380	190	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
4-Chloro-3-methylphenol	ND		190	48	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
4-Chloroaniline	ND		190	48	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
4-Methylphenol	ND		380	23	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
4-Nitrophenol	ND *		380	140	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Acenaphthene	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Acenaphthylene	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Acetophenone	ND		190	26	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Anthracene	ND		190	48	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Atrazine	ND		190	67	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Benzaldehyde	ND		190	150	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Benzo[b]fluoranthene	ND		190	31	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Benzo[g,h,i]perylene	ND		190	21	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Bis(2-ethylhexyl) phthalate	ND		190	66	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Caprolactam	ND		190	58	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Carbazole	ND		190	23	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Chrysene	ND		190	43	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Dibenzofuran	ND		190	23	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1

TestAmerica Buffalo



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-8 (0-2)**

**Lab Sample ID: 480-100861-4**

Date Collected: 05/26/16 09:45

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 85.6

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		190	21	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Fluorene	ND		190	23	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Hexachloroethane	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Isophorone	ND		190	41	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Naphthalene	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Nitrobenzene	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Pentachlorophenol	ND		380	190	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Phenanthrene	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Phenol	ND		190	30	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Pyrene	ND		190	23	ug/Kg	☼	06/03/16 07:31	06/06/16 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	77		34 - 132				06/03/16 07:31	06/06/16 14:58	1
Phenol-d5 (Surr)	66		11 - 120				06/03/16 07:31	06/06/16 14:58	1
p-Terphenyl-d14 (Surr)	86		65 - 153				06/03/16 07:31	06/06/16 14:58	1
2,4,6-Tribromophenol (Surr)	103		39 - 146				06/03/16 07:31	06/06/16 14:58	1
2-Fluorobiphenyl	76		37 - 120				06/03/16 07:31	06/06/16 14:58	1
2-Fluorophenol (Surr)	63		18 - 120				06/03/16 07:31	06/06/16 14:58	1

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.042	mg/Kg	☼	05/31/16 11:25	05/31/16 20:24	1
PCB-1221	ND		0.22	0.042	mg/Kg	☼	05/31/16 11:25	05/31/16 20:24	1
PCB-1232	ND		0.22	0.042	mg/Kg	☼	05/31/16 11:25	05/31/16 20:24	1
PCB-1242	ND		0.22	0.042	mg/Kg	☼	05/31/16 11:25	05/31/16 20:24	1
PCB-1248	ND		0.22	0.042	mg/Kg	☼	05/31/16 11:25	05/31/16 20:24	1
PCB-1254	ND		0.22	0.10	mg/Kg	☼	05/31/16 11:25	05/31/16 20:24	1
PCB-1260	ND		0.22	0.10	mg/Kg	☼	05/31/16 11:25	05/31/16 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	128		60 - 154				05/31/16 11:25	05/31/16 20:24	1
Tetrachloro-m-xylene	126		60 - 154				05/31/16 11:25	05/31/16 20:24	1
DCB Decachlorobiphenyl	144		65 - 174				05/31/16 11:25	05/31/16 20:24	1
DCB Decachlorobiphenyl	128		65 - 174				05/31/16 11:25	05/31/16 20:24	1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3340		12.3		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Antimony	ND		18.5		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Arsenic	ND		2.5		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Barium	18.3		0.62		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Beryllium	ND		0.25		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Cadmium	0.28		0.25		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Calcium	47200		61.5		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-8 (0-2)**

**Lab Sample ID: 480-100861-4**

Date Collected: 05/26/16 09:45

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 85.6

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	6.0		0.62		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Cobalt	2.1		0.62		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Copper	5.2		1.2		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Iron	5910	^	12.3		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Lead	7.6		1.2		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Magnesium	24800		24.6		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Manganese	234		0.25		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Nickel	ND		6.2		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Potassium	1130		36.9		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Selenium	ND		4.7		mg/Kg	☼	06/02/16 11:55	06/03/16 10:36	1
Silver	ND		0.74		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Sodium	223		172		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Thallium	ND		7.4		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Vanadium	11.0		0.62		mg/Kg	☼	06/01/16 08:50	06/02/16 08:32	1
Zinc	61.4		2.4		mg/Kg	☼	06/02/16 11:55	06/03/16 10:36	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.022		mg/Kg	☼	06/03/16 10:05	06/03/16 16:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	F1	1.2		mg/Kg	☼	06/01/16 14:55	06/02/16 11:47	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-7 (2-4)**

**Lab Sample ID: 480-100861-5**

**Date Collected: 05/26/16 11:30**

**Matrix: Solid**

**Date Received: 05/27/16 17:30**

**Percent Solids: 85.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	29	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
2,4-Dinitrotoluene	ND		200	40	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
2-Methylphenol	ND		200	23	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
2-Nitrophenol	ND		200	55	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
4-Chloro-3-methylphenol	ND		200	48	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
4-Chloroaniline	ND		200	48	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
4-Methylphenol	ND		380	23	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
4-Nitrophenol	ND *		380	140	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Acenaphthene	ND		200	29	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Acenaphthylene	ND		200	25	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Acetophenone	ND		200	26	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Anthracene	ND		200	48	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Atrazine	ND		200	68	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Benzaldehyde	ND		200	160	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Benzo[k]fluoranthene	ND		200	25	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Bis(2-chloroethoxy)methane	ND		200	41	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Caprolactam	ND		200	59	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Carbazole	ND		200	23	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Chrysene	ND		200	44	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Dibenz(a,h)anthracene	ND		200	34	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Di-n-butyl phthalate	ND		200	33	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Dibenzofuran	ND		200	23	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-7 (2-4)**

**Lab Sample ID: 480-100861-5**

Date Collected: 05/26/16 11:30

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 85.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		200	21	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Fluorene	ND		200	23	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Hexachlorobenzene	ND		200	26	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Hexachlorocyclopentadiene	ND		200	26	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Hexachloroethane	ND		200	25	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Isophorone	ND		200	41	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
N-Nitrosodi-n-propylamine	ND		200	33	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Naphthalene	ND		200	25	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Nitrobenzene	ND		200	22	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Phenanthrene	ND		200	29	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Phenol	ND		200	30	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Pyrene	ND		200	23	ug/Kg	☼	06/03/16 07:31	06/06/16 15:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	80		34 - 132				06/03/16 07:31	06/06/16 15:25	1
Phenol-d5 (Surr)	69		11 - 120				06/03/16 07:31	06/06/16 15:25	1
p-Terphenyl-d14 (Surr)	92		65 - 153				06/03/16 07:31	06/06/16 15:25	1
2,4,6-Tribromophenol (Surr)	104		39 - 146				06/03/16 07:31	06/06/16 15:25	1
2-Fluorobiphenyl	83		37 - 120				06/03/16 07:31	06/06/16 15:25	1
2-Fluorophenol (Surr)	69		18 - 120				06/03/16 07:31	06/06/16 15:25	1

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.041	mg/Kg	☼	05/31/16 11:25	05/31/16 20:42	1
PCB-1221	ND		0.21	0.041	mg/Kg	☼	05/31/16 11:25	05/31/16 20:42	1
PCB-1232	ND		0.21	0.041	mg/Kg	☼	05/31/16 11:25	05/31/16 20:42	1
PCB-1242	ND		0.21	0.041	mg/Kg	☼	05/31/16 11:25	05/31/16 20:42	1
PCB-1248	ND		0.21	0.041	mg/Kg	☼	05/31/16 11:25	05/31/16 20:42	1
PCB-1254	ND		0.21	0.098	mg/Kg	☼	05/31/16 11:25	05/31/16 20:42	1
PCB-1260	ND		0.21	0.098	mg/Kg	☼	05/31/16 11:25	05/31/16 20:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	125		60 - 154				05/31/16 11:25	05/31/16 20:42	1
Tetrachloro-p-xylene	118		60 - 154				05/31/16 11:25	05/31/16 20:42	1
DCB Decachlorobiphenyl	139		65 - 174				05/31/16 11:25	05/31/16 20:42	1
DCB Decachlorobiphenyl	126		65 - 174				05/31/16 11:25	05/31/16 20:42	1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11200		11.8		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Antimony	ND		17.7		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Arsenic	ND		2.4		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Barium	80.3		0.59		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Beryllium	0.45		0.24		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Cadmium	0.27		0.24		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Calcium	60800		58.8		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-7 (2-4)**

**Lab Sample ID: 480-100861-5**

Date Collected: 05/26/16 11:30

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 85.3

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	14.8		0.59		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Cobalt	5.6		0.59		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Copper	10		1.2		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Iron	12800	^	11.8		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Lead	12.8		1.2		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Magnesium	28800		23.5		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Manganese	392		0.24		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Nickel	13.2		5.9		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Potassium	4070		35.3		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Selenium	ND		4.8		mg/Kg	☼	06/02/16 11:55	06/03/16 11:54	1
Silver	ND		0.71		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Sodium	275		165		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Thallium	ND		7.1		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Vanadium	22.5		0.59		mg/Kg	☼	06/01/16 08:50	06/02/16 08:36	1
Zinc	70.8		2.4		mg/Kg	☼	06/02/16 11:55	06/03/16 11:54	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.022		mg/Kg	☼	06/03/16 10:05	06/03/16 16:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1		mg/Kg	☼	06/01/16 14:55	06/02/16 11:50	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-9 (0-2)**

**Lab Sample ID: 480-100861-6**

**Date Collected: 05/26/16 15:00**

**Matrix: Solid**

**Date Received: 05/27/16 17:30**

**Percent Solids: 88.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
2,4,5-Trichlorophenol	ND		190	51	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
2,4-Dimethylphenol	ND		190	45	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
2,4-Dinitrophenol	ND		1800	860	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
2-Chlorophenol	ND		190	34	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
2-Methylphenol	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
2-Nitroaniline	ND		360	28	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
2-Nitrophenol	ND		190	53	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
3,3'-Dichlorobenzidine	ND		360	220	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
3-Nitroaniline	ND		360	52	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
4,6-Dinitro-2-methylphenol	ND		360	190	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
4-Bromophenyl phenyl ether	ND		190	26	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
4-Chloro-3-methylphenol	ND		190	46	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
4-Chloroaniline	ND		190	46	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
4-Methylphenol	ND		360	22	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
4-Nitroaniline	ND		360	98	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
4-Nitrophenol	ND *		360	130	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Acenaphthene	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Acenaphthylene	ND		190	24	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Acetophenone	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Anthracene	ND		190	46	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Atrazine	ND		190	65	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Benzaldehyde	ND		190	150	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Benzo[k]fluoranthene	ND		190	24	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Bis(2-chloroethyl)ether	ND		190	24	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Bis(2-ethylhexyl) phthalate	ND		190	64	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Caprolactam	ND		190	56	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Carbazole	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Chrysene	ND		190	42	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Dibenzofuran	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Diethyl phthalate	ND		190	24	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-9 (0-2)**

**Lab Sample ID: 480-100861-6**

Date Collected: 05/26/16 15:00

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 88.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Fluoranthene</b>	<b>35</b>	<b>J</b>	190	20	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Fluorene	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Hexachlorobenzene	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Hexachlorocyclopentadiene	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Hexachloroethane	ND		190	24	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Indeno[1,2,3-cd]pyrene	ND		190	23	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Isophorone	ND		190	40	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Naphthalene	ND		190	24	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Nitrobenzene	ND		190	21	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Pentachlorophenol	ND		360	190	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Phenanthrene	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
Phenol	ND		190	29	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
<b>Pyrene</b>	<b>30</b>	<b>J</b>	190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 15:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5 (Surr)	81		34 - 132				06/03/16 07:31	06/06/16 15:52	1
Phenol-d5 (Surr)	70		11 - 120				06/03/16 07:31	06/06/16 15:52	1
p-Terphenyl-d14 (Surr)	80		65 - 153				06/03/16 07:31	06/06/16 15:52	1
2,4,6-Tribromophenol (Surr)	113		39 - 146				06/03/16 07:31	06/06/16 15:52	1
2-Fluorobiphenyl	82		37 - 120				06/03/16 07:31	06/06/16 15:52	1
2-Fluorophenol (Surr)	70		18 - 120				06/03/16 07:31	06/06/16 15:52	1

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.046	mg/Kg	☼	05/31/16 11:25	05/31/16 21:00	1
PCB-1221	ND		0.24	0.046	mg/Kg	☼	05/31/16 11:25	05/31/16 21:00	1
PCB-1232	ND		0.24	0.046	mg/Kg	☼	05/31/16 11:25	05/31/16 21:00	1
PCB-1242	ND		0.24	0.046	mg/Kg	☼	05/31/16 11:25	05/31/16 21:00	1
PCB-1248	ND		0.24	0.046	mg/Kg	☼	05/31/16 11:25	05/31/16 21:00	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	05/31/16 11:25	05/31/16 21:00	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	05/31/16 11:25	05/31/16 21:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	110		60 - 154				05/31/16 11:25	05/31/16 21:00	1
Tetrachloro-m-xylene	107		60 - 154				05/31/16 11:25	05/31/16 21:00	1
DCB Decachlorobiphenyl	118		65 - 174				05/31/16 11:25	05/31/16 21:00	1
DCB Decachlorobiphenyl	101		65 - 174				05/31/16 11:25	05/31/16 21:00	1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>3460</b>		11.2		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
Antimony	ND		16.8		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
<b>Arsenic</b>	<b>2.7</b>		2.2		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
<b>Barium</b>	<b>66.0</b>		0.56		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
<b>Beryllium</b>	<b>0.23</b>		0.22		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
<b>Cadmium</b>	<b>0.23</b>		0.22		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
<b>Calcium</b>	<b>35700</b>		56.1		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-9 (0-2)**

**Lab Sample ID: 480-100861-6**

Date Collected: 05/26/16 15:00

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 88.8

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	7.9		0.56		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
Cobalt	2.8		0.56		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
Copper	9.9		1.1		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
Iron	10500	^	11.2		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
Lead	22.1		1.1		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
Magnesium	16600		22.4		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
Manganese	179		0.22		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
Nickel	6.8		5.6		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
Potassium	949		33.7		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
Selenium	ND		4.5		mg/Kg	☼	06/02/16 11:55	06/03/16 11:57	1
Silver	ND		0.67		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
Sodium	204		157		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
Thallium	ND		6.7		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
Vanadium	13.9		0.56		mg/Kg	☼	06/01/16 08:50	06/02/16 08:39	1
Zinc	58.7	F1 F2	2.3		mg/Kg	☼	06/02/16 11:55	06/03/16 11:57	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.022		mg/Kg	☼	06/03/16 10:05	06/03/16 16:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.0		mg/Kg	☼	06/01/16 14:55	06/02/16 11:51	1



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-10 (2-4)**

**Lab Sample ID: 480-100861-7**

**Date Collected: 05/26/16 16:45**

**Matrix: Solid**

**Date Received: 05/27/16 17:30**

**Percent Solids: 87.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	28	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
2,4-Dinitrophenol	ND		1900	880	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
2-Chloronaphthalene	ND		190	32	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
2-Chlorophenol	ND		190	35	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
2-Methylphenol	ND		190	23	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
2-Methylnaphthalene	ND		190	38	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
2-Nitroaniline	ND		370	28	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
2-Nitrophenol	ND		190	54	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
3,3'-Dichlorobenzidine	ND		370	230	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
3-Nitroaniline	ND		370	53	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
4-Chloroaniline	ND		190	47	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
4-Methylphenol	ND		370	23	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
4-Nitroaniline	ND		370	100	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
4-Nitrophenol	ND	*	370	130	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Acenaphthene	ND		190	28	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Acenaphthylene	ND		190	25	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Acetophenone	ND		190	26	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Anthracene	ND		190	47	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Atrazine	ND		190	66	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Benzaldehyde	ND		190	150	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Benzo[a]anthracene	ND		190	19	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Benzo[a]pyrene	ND		190	28	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Bis(2-ethylhexyl) phthalate	ND		190	65	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Caprolactam	ND		190	57	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Carbazole	ND		190	23	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Chrysene	ND		190	43	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Dibenzofuran	ND		190	23	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Diethyl phthalate	ND		190	25	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1
Dimethyl phthalate	ND		190	23	ug/Kg	*	06/03/16 07:31	06/06/16 16:18	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-10 (2-4)**

**Lab Sample ID: 480-100861-7**

Date Collected: 05/26/16 16:45

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 87.7

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		190	20	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
Fluorene	ND		190	23	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
Hexachloroethane	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
Isophorone	ND		190	41	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
Naphthalene	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
Nitrobenzene	ND		190	21	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
Phenanthrene	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
Phenol	ND		190	29	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
Pyrene	ND		190	23	ug/Kg	☼	06/03/16 07:31	06/06/16 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	84		34 - 132				06/03/16 07:31	06/06/16 16:18	1
Phenol-d5 (Surr)	69		11 - 120				06/03/16 07:31	06/06/16 16:18	1
p-Terphenyl-d14 (Surr)	96		65 - 153				06/03/16 07:31	06/06/16 16:18	1
2,4,6-Tribromophenol (Surr)	106		39 - 146				06/03/16 07:31	06/06/16 16:18	1
2-Fluorobiphenyl	85		37 - 120				06/03/16 07:31	06/06/16 16:18	1
2-Fluorophenol (Surr)	68		18 - 120				06/03/16 07:31	06/06/16 16:18	1

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.041	mg/Kg	☼	05/31/16 11:25	05/31/16 21:18	1
PCB-1221	ND		0.21	0.041	mg/Kg	☼	05/31/16 11:25	05/31/16 21:18	1
PCB-1232	ND		0.21	0.041	mg/Kg	☼	05/31/16 11:25	05/31/16 21:18	1
PCB-1242	ND		0.21	0.041	mg/Kg	☼	05/31/16 11:25	05/31/16 21:18	1
PCB-1248	ND		0.21	0.041	mg/Kg	☼	05/31/16 11:25	05/31/16 21:18	1
PCB-1254	ND		0.21	0.098	mg/Kg	☼	05/31/16 11:25	05/31/16 21:18	1
PCB-1260	ND		0.21	0.098	mg/Kg	☼	05/31/16 11:25	05/31/16 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	118		60 - 154				05/31/16 11:25	05/31/16 21:18	1
Tetrachloro-m-xylene	115		60 - 154				05/31/16 11:25	05/31/16 21:18	1
DCB Decachlorobiphenyl	129		65 - 174				05/31/16 11:25	05/31/16 21:18	1
DCB Decachlorobiphenyl	114		65 - 174				05/31/16 11:25	05/31/16 21:18	1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10400		10.8		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Antimony	ND		16.2		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Arsenic	3.2		2.2		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Barium	60.4		0.54		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Beryllium	0.42		0.22		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Cadmium	0.29		0.22		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Calcium	59100		54.1		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-10 (2-4)**

**Lab Sample ID: 480-100861-7**

Date Collected: 05/26/16 16:45

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 87.7

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	13.8		0.54		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Cobalt	5.3		0.54		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Copper	8.9		1.1		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Iron	15800	^	10.8		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Lead	13.5		1.1		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Magnesium	29200		21.6		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Manganese	354		0.22		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Nickel	13.0		5.4		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Potassium	3630		32.4		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Selenium	ND		4.6		mg/Kg	☼	06/02/16 11:55	06/03/16 11:17	1
Silver	ND		0.65		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Sodium	225		151		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Thallium	ND		6.5		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Vanadium	21.2		0.54		mg/Kg	☼	06/01/16 08:50	06/02/16 08:43	1
Zinc	63.0		2.3		mg/Kg	☼	06/02/16 11:55	06/03/16 11:17	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021		mg/Kg	☼	06/03/16 10:05	06/03/16 16:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	7.4		1.1		mg/Kg	☼	06/01/16 14:55	06/02/16 11:53	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI SB-16 (0-5)**

**Lab Sample ID: 480-100861-8**

**Date Collected: 05/27/16 14:00**

**Matrix: Solid**

**Date Received: 05/27/16 17:30**

**Percent Solids: 88.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
2,4,5-Trichlorophenol	ND		190	51	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
2,4-Dinitrophenol	ND		1900	880	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
2-Methylphenol	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
3,3'-Dichlorobenzidine	ND		370	220	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
3-Nitroaniline	ND		370	53	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
4-Chloroaniline	ND		190	47	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
4-Methylphenol	ND		370	22	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
4-Nitroaniline	ND		370	100	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
4-Nitrophenol	ND *		370	130	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Acenaphthene	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Acenaphthylene	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Acetophenone	ND		190	26	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Anthracene	ND		190	47	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Atrazine	ND		190	66	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Benzaldehyde	ND		190	150	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Bis(2-ethylhexyl) phthalate	ND		190	65	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Caprolactam	ND		190	57	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Carbazole	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Chrysene	ND		190	43	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Dibenzofuran	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI SB-16 (0-5)**

**Lab Sample ID: 480-100861-8**

Date Collected: 05/27/16 14:00

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 88.5

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		190	20	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Fluorene	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Hexachloroethane	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Indeno[1,2,3-cd]pyrene	ND		190	23	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Isophorone	ND		190	40	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Naphthalene	ND		190	25	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Nitrobenzene	ND		190	21	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Phenanthrene	ND		190	28	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Phenol	ND		190	29	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Pyrene	ND		190	22	ug/Kg	☼	06/03/16 07:31	06/06/16 16:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	78		34 - 132				06/03/16 07:31	06/06/16 16:45	1
Phenol-d5 (Surr)	68		11 - 120				06/03/16 07:31	06/06/16 16:45	1
p-Terphenyl-d14 (Surr)	83		65 - 153				06/03/16 07:31	06/06/16 16:45	1
2,4,6-Tribromophenol (Surr)	99		39 - 146				06/03/16 07:31	06/06/16 16:45	1
2-Fluorobiphenyl	79		37 - 120				06/03/16 07:31	06/06/16 16:45	1
2-Fluorophenol (Surr)	67		18 - 120				06/03/16 07:31	06/06/16 16:45	1

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.040	mg/Kg	☼	05/31/16 11:25	05/31/16 21:36	1
PCB-1221	ND		0.20	0.040	mg/Kg	☼	05/31/16 11:25	05/31/16 21:36	1
PCB-1232	ND		0.20	0.040	mg/Kg	☼	05/31/16 11:25	05/31/16 21:36	1
PCB-1242	ND		0.20	0.040	mg/Kg	☼	05/31/16 11:25	05/31/16 21:36	1
PCB-1248	ND		0.20	0.040	mg/Kg	☼	05/31/16 11:25	05/31/16 21:36	1
PCB-1254	ND		0.20	0.095	mg/Kg	☼	05/31/16 11:25	05/31/16 21:36	1
PCB-1260	ND		0.20	0.095	mg/Kg	☼	05/31/16 11:25	05/31/16 21:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	124		60 - 154				05/31/16 11:25	05/31/16 21:36	1
Tetrachloro-p-xylene	115		60 - 154				05/31/16 11:25	05/31/16 21:36	1
DCB Decachlorobiphenyl	136		65 - 174				05/31/16 11:25	05/31/16 21:36	1
DCB Decachlorobiphenyl	120		65 - 174				05/31/16 11:25	05/31/16 21:36	1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8510		10.9		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Antimony	ND		16.4		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Arsenic	2.4		2.2		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Barium	36.3		0.55		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Beryllium	0.37		0.22		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Cadmium	0.24		0.22		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Calcium	17200		54.6		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI SB-16 (0-5)**

**Lab Sample ID: 480-100861-8**

Date Collected: 05/27/16 14:00

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 88.5

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	12.5		0.55		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Cobalt	3.8		0.55		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Copper	7.6		1.1		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Iron	11500	^	10.9		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Lead	14.3		1.1		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Magnesium	6240		21.8		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Manganese	221		0.22		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Nickel	9.1		5.5		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Potassium	1590		32.8		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Selenium	ND		4.6		mg/Kg	☼	06/02/16 11:55	06/03/16 11:20	1
Silver	ND		0.66		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Sodium	1180		153		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Thallium	ND		6.6		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Vanadium	21.9		0.55		mg/Kg	☼	06/01/16 08:50	06/02/16 08:46	1
Zinc	70.0		2.3		mg/Kg	☼	06/02/16 11:55	06/03/16 11:20	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.021		mg/Kg	☼	06/03/16 10:05	06/03/16 16:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1		mg/Kg	☼	06/01/16 14:55	06/02/16 11:54	1

# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-100861-1	RI MW-2 (0-2)	111	107	109	100
LCS 480-304193/1-A	Lab Control Sample	107	109	108	102
LCS 480-304193/2-A	Lab Control Sample Dup	108	109	109	101
MB 480-304193/3-A	Method Blank	108	106	107	101

**Surrogate Legend**

12DCE = 1,2-Dichloroethane-d4 (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane (Surr)  
 TOL = Toluene-d8 (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (34-132)	PHL (11-120)	TPH (65-153)	TBP (39-146)	FBP (37-120)	2FP (18-120)
480-100861-2	RI MW-5 (6-8)	87	75	93	111	89	77
480-100861-2 MS	RI MW-5 (6-8)	78	68	91	120	82	66
480-100861-2 MSD	RI MW-5 (6-8)	80	70	93	119	83	65
480-100861-3	BLIND DUP 2	81	69	87	104	83	66
480-100861-4	RI MW-8 (0-2)	77	66	86	103	76	63
480-100861-5	RI MW-7 (2-4)	80	69	92	104	83	69
480-100861-6	RI MW-9 (0-2)	81	70	80	113	82	70
480-100861-7	RI MW-10 (2-4)	84	69	96	106	85	68
480-100861-8	RI SB-16 (0-5)	78	68	83	99	79	67
LCS 480-304908/2-A	Lab Control Sample	85	70	88	118	84	67
MB 480-304908/1-A	Method Blank	85	75	94	99	89	73

**Surrogate Legend**

NBZ = Nitrobenzene-d5 (Surr)  
 PHL = Phenol-d5 (Surr)  
 TPH = p-Terphenyl-d14 (Surr)  
 TBP = 2,4,6-Tribromophenol (Surr)  
 FBP = 2-Fluorobiphenyl  
 2FP = 2-Fluorophenol (Surr)

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (60-154)	TCX2 (60-154)	DCB1 (65-174)	DCB2 (65-174)
480-100861-2	RI MW-5 (6-8)	114	109	126	112
480-100861-2 MS	RI MW-5 (6-8)	129	128	140	126
480-100861-2 MSD	RI MW-5 (6-8)	146	144	160	142
480-100861-3	BLIND DUP 2	109	104	118	105
480-100861-4	RI MW-8 (0-2)	128	126	144	128
480-100861-5	RI MW-7 (2-4)	125	118	139	126
480-100861-6	RI MW-9 (0-2)	110	107	118	101

TestAmerica Buffalo

# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	TCX2	DCB1	DCB2
		(60-154)	(60-154)	(65-174)	(65-174)
480-100861-7	RI MW-10 (2-4)	118	115	129	114
480-100861-8	RI SB-16 (0-5)	124	115	136	120
LCS 480-304352/2-A	Lab Control Sample	131	128	143	129
MB 480-304352/1-A	Method Blank	113	118	122	111

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl



# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 480-304193/3-A**

**Matrix: Solid**

**Analysis Batch: 304439**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 304193**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.1	0.37	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
1,1,2,2-Tetrachloroethane	ND		5.1	0.82	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.1	1.2	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
1,1,2-Trichloroethane	ND		5.1	0.66	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
1,1-Dichloroethane	ND		5.1	0.62	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
1,1-Dichloroethene	ND		5.1	0.62	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
1,2,4-Trichlorobenzene	ND		5.1	0.31	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
1,2-Dibromo-3-Chloropropane	ND		5.1	2.5	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
1,2-Dibromoethane	ND		5.1	0.65	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
1,2-Dichlorobenzene	ND		5.1	0.39	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
1,2-Dichloroethane	ND		5.1	0.25	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
1,2-Dichloropropane	ND		5.1	2.5	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
1,3-Dichlorobenzene	ND		5.1	0.26	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
1,4-Dichlorobenzene	ND		5.1	0.71	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
2-Hexanone	ND		25	2.5	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.7	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Acetone	4.47	J	25	4.3	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Benzene	ND		5.1	0.25	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Bromodichloromethane	ND		5.1	0.68	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Bromoform	ND		5.1	2.5	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Bromomethane	ND		5.1	0.45	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Carbon disulfide	ND		5.1	2.5	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Carbon tetrachloride	ND		5.1	0.49	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Chlorobenzene	ND		5.1	0.67	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Chloroethane	ND		5.1	1.1	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Chloroform	ND		5.1	0.31	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Chloromethane	ND		5.1	0.31	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
cis-1,2-Dichloroethene	ND		5.1	0.65	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
cis-1,3-Dichloropropene	ND		5.1	0.73	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Cyclohexane	ND		5.1	0.71	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Dibromochloromethane	ND		5.1	0.65	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Dichlorodifluoromethane	ND		5.1	0.42	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Ethylbenzene	ND		5.1	0.35	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Isopropylbenzene	ND		5.1	0.76	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Methyl acetate	ND		5.1	3.1	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Methyl tert-butyl ether	ND		5.1	0.50	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Methylcyclohexane	ND		5.1	0.77	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Methylene Chloride	ND		5.1	2.3	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Styrene	ND		5.1	0.25	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Tetrachloroethene	ND		5.1	0.68	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Toluene	ND		5.1	0.38	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
trans-1,2-Dichloroethene	ND		5.1	0.52	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
trans-1,3-Dichloropropene	ND		5.1	2.2	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Trichloroethene	ND		5.1	1.1	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Trichlorofluoromethane	ND		5.1	0.48	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Vinyl chloride	ND		5.1	0.62	ug/Kg		05/28/16 10:35	06/01/16 00:06	1
Xylenes, Total	ND		10	0.85	ug/Kg		05/28/16 10:35	06/01/16 00:06	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	05/28/16 10:35	06/01/16 00:06	1
4-Bromofluorobenzene (Surr)	106		72 - 126	05/28/16 10:35	06/01/16 00:06	1
Dibromofluoromethane (Surr)	107		60 - 140	05/28/16 10:35	06/01/16 00:06	1
Toluene-d8 (Surr)	101		71 - 125	05/28/16 10:35	06/01/16 00:06	1

Lab Sample ID: LCS 480-304193/1-A

Matrix: Solid

Analysis Batch: 304439

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 304193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
1,1,1-Trichloroethane	50.0	49.0		ug/Kg		98	77 - 121	
1,1,2,2-Tetrachloroethane	50.0	43.0		ug/Kg		86	80 - 120	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.3		ug/Kg		91	60 - 140	
1,1,2-Trichloroethane	50.0	45.3		ug/Kg		91	78 - 122	
1,1-Dichloroethane	50.0	43.8		ug/Kg		88	73 - 126	
1,1-Dichloroethene	50.0	43.7		ug/Kg		87	59 - 125	
1,2,4-Trichlorobenzene	50.0	46.5		ug/Kg		93	64 - 120	
1,2-Dibromo-3-Chloropropane	50.0	48.5		ug/Kg		97	63 - 124	
1,2-Dibromoethane	50.0	48.3		ug/Kg		97	78 - 120	
1,2-Dichlorobenzene	50.0	44.4		ug/Kg		89	75 - 120	
1,2-Dichloroethane	50.0	48.7		ug/Kg		97	77 - 122	
1,2-Dichloropropane	50.0	40.7		ug/Kg		81	75 - 124	
1,3-Dichlorobenzene	50.0	44.4		ug/Kg		89	74 - 120	
1,4-Dichlorobenzene	50.0	44.4		ug/Kg		89	73 - 120	
2-Butanone (MEK)	250	248		ug/Kg		99	70 - 134	
2-Hexanone	250	238		ug/Kg		95	59 - 130	
4-Methyl-2-pentanone (MIBK)	250	218		ug/Kg		87	65 - 133	
Acetone	250	293		ug/Kg		117	61 - 137	
Benzene	50.0	42.5		ug/Kg		85	79 - 127	
Bromodichloromethane	50.0	48.8		ug/Kg		98	80 - 122	
Bromoform	50.0	46.5		ug/Kg		93	68 - 126	
Bromomethane	50.0	56.1		ug/Kg		112	37 - 149	
Carbon disulfide	50.0	40.1		ug/Kg		80	64 - 131	
Carbon tetrachloride	50.0	52.1		ug/Kg		104	75 - 135	
Chlorobenzene	50.0	44.7		ug/Kg		89	76 - 124	
Chloroethane	50.0	50.7		ug/Kg		101	69 - 135	
Chloroform	50.0	45.8		ug/Kg		92	80 - 118	
Chloromethane	50.0	40.6		ug/Kg		81	63 - 127	
cis-1,2-Dichloroethene	50.0	43.9		ug/Kg		88	81 - 117	
cis-1,3-Dichloropropene	50.0	45.8		ug/Kg		92	82 - 120	
Cyclohexane	50.0	39.8		ug/Kg		80	65 - 106	
Dibromochloromethane	50.0	51.7		ug/Kg		103	76 - 125	
Dichlorodifluoromethane	50.0	39.8		ug/Kg		80	57 - 142	
Ethylbenzene	50.0	44.4		ug/Kg		89	80 - 120	
Isopropylbenzene	50.0	43.0		ug/Kg		86	72 - 120	
Methyl acetate	250	215		ug/Kg		86	55 - 136	
Methyl tert-butyl ether	50.0	46.1		ug/Kg		92	63 - 125	
Methylcyclohexane	50.0	42.0		ug/Kg		84	60 - 140	
Methylene Chloride	50.0	47.8		ug/Kg		96	61 - 127	
Styrene	50.0	44.5		ug/Kg		89	80 - 120	
Tetrachloroethene	50.0	47.3		ug/Kg		95	74 - 122	
Toluene	50.0	40.5		ug/Kg		81	74 - 128	
trans-1,2-Dichloroethene	50.0	44.2		ug/Kg		88	78 - 126	

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-304193/1-A**

**Matrix: Solid**

**Analysis Batch: 304439**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 304193**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	50.0	47.7		ug/Kg		95	73 - 123
Trichloroethene	50.0	44.3		ug/Kg		89	77 - 129
Trichlorofluoromethane	50.0	58.4		ug/Kg		117	65 - 146
Vinyl chloride	50.0	46.1		ug/Kg		92	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		64 - 126
4-Bromofluorobenzene (Surr)	109		72 - 126
Dibromofluoromethane (Surr)	108		60 - 140
Toluene-d8 (Surr)	102		71 - 125

**Lab Sample ID: LCSD 480-304193/2-A**

**Matrix: Solid**

**Analysis Batch: 304439**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 304193**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	46.6	44.2		ug/Kg		95	77 - 121	10	20
1,1,1,2-Tetrachloroethane	46.6	39.1		ug/Kg		84	80 - 120	9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	46.6	38.9		ug/Kg		84	60 - 140	15	20
1,1,2-Trichloroethane	46.6	39.7		ug/Kg		85	78 - 122	13	20
1,1-Dichloroethane	46.6	38.7		ug/Kg		83	73 - 126	12	20
1,1-Dichloroethene	46.6	37.6		ug/Kg		81	59 - 125	15	20
1,2,4-Trichlorobenzene	46.6	41.5		ug/Kg		89	64 - 120	11	20
1,2-Dibromo-3-Chloropropane	46.6	44.3		ug/Kg		95	63 - 124	9	20
1,2-Dibromoethane	46.6	43.6		ug/Kg		94	78 - 120	10	20
1,2-Dichlorobenzene	46.6	40.1		ug/Kg		86	75 - 120	10	20
1,2-Dichloroethane	46.6	44.8		ug/Kg		96	77 - 122	8	20
1,2-Dichloropropane	46.6	37.7		ug/Kg		81	75 - 124	8	20
1,3-Dichlorobenzene	46.6	39.7		ug/Kg		85	74 - 120	11	20
1,4-Dichlorobenzene	46.6	39.8		ug/Kg		85	73 - 120	11	20
2-Butanone (MEK)	233	235		ug/Kg		101	70 - 134	6	20
2-Hexanone	233	220		ug/Kg		94	59 - 130	8	20
4-Methyl-2-pentanone (MIBK)	233	202		ug/Kg		87	65 - 133	7	20
Acetone	233	281		ug/Kg		121	61 - 137	4	20
Benzene	46.6	38.4		ug/Kg		83	79 - 127	10	20
Bromodichloromethane	46.6	44.7		ug/Kg		96	80 - 122	9	20
Bromoform	46.6	42.7		ug/Kg		92	68 - 126	9	20
Bromomethane	46.6	50.0		ug/Kg		107	37 - 149	12	20
Carbon disulfide	46.6	35.7		ug/Kg		77	64 - 131	12	20
Carbon tetrachloride	46.6	45.5		ug/Kg		98	75 - 135	13	20
Chlorobenzene	46.6	39.7		ug/Kg		85	76 - 124	12	20
Chloroethane	46.6	46.2		ug/Kg		99	69 - 135	9	20
Chloroform	46.6	41.5		ug/Kg		89	80 - 118	10	20
Chloromethane	46.6	37.7		ug/Kg		81	63 - 127	7	20
cis-1,2-Dichloroethene	46.6	40.4		ug/Kg		87	81 - 117	8	20
cis-1,3-Dichloropropene	46.6	41.8		ug/Kg		90	82 - 120	9	20
Cyclohexane	46.6	34.9		ug/Kg		75	65 - 106	13	20

TestAmerica Buffalo

## QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 480-304193/2-A**

**Matrix: Solid**

**Analysis Batch: 304439**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 304193**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Dibromochloromethane	46.6	47.6		ug/Kg		102	76 - 125	8	20	
Dichlorodifluoromethane	46.6	34.9		ug/Kg		75	57 - 142	13	20	
Ethylbenzene	46.6	39.0		ug/Kg		84	80 - 120	13	20	
Isopropylbenzene	46.6	37.7		ug/Kg		81	72 - 120	13	20	
Methyl acetate	233	204		ug/Kg		88	55 - 136	5	20	
Methyl tert-butyl ether	46.6	43.6		ug/Kg		94	63 - 125	6	20	
Methylcyclohexane	46.6	36.9		ug/Kg		79	60 - 140	13	20	
Methylene Chloride	46.6	44.1		ug/Kg		95	61 - 127	8	20	
Styrene	46.6	39.8		ug/Kg		85	80 - 120	11	20	
Tetrachloroethene	46.6	40.1		ug/Kg		86	74 - 122	16	20	
Toluene	46.6	35.6		ug/Kg		76	74 - 128	13	20	
trans-1,2-Dichloroethene	46.6	38.9		ug/Kg		83	78 - 126	13	20	
trans-1,3-Dichloropropene	46.6	43.1		ug/Kg		93	73 - 123	10	20	
Trichloroethene	46.6	39.5		ug/Kg		85	77 - 129	11	20	
Trichlorofluoromethane	46.6	50.6		ug/Kg		109	65 - 146	14	20	
Vinyl chloride	46.6	42.0		ug/Kg		90	61 - 133	9	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	108		64 - 126
4-Bromofluorobenzene (Surr)	109		72 - 126
Dibromofluoromethane (Surr)	109		60 - 140
Toluene-d8 (Surr)	101		71 - 125

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 480-304908/1-A**

**Matrix: Solid**

**Analysis Batch: 305196**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 304908**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Biphenyl	ND		170	25	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
bis (2-chloroisopropyl) ether	ND		170	33	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
2,4,6-Trichlorophenol	ND		170	33	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
2,4-Dimethylphenol	ND		170	40	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
2,4-Dinitrophenol	ND		1600	770	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
2,4-Dinitrotoluene	ND		170	34	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
2-Chloronaphthalene	ND		170	28	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
2-Chlorophenol	ND		170	30	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
2-Methylphenol	ND		170	20	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
2-Methylnaphthalene	ND		170	33	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
2-Nitroaniline	ND		320	25	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
2-Nitrophenol	ND		170	47	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
3,3'-Dichlorobenzidine	ND		320	200	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
3-Nitroaniline	ND		320	46	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
4,6-Dinitro-2-methylphenol	ND		320	170	ug/Kg		06/03/16 07:31	06/06/16 12:19	1

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-304908/1-A**

**Matrix: Solid**

**Analysis Batch: 305196**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 304908**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
4-Chloro-3-methylphenol	ND		170	41	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
4-Chloroaniline	ND		170	41	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
4-Methylphenol	ND		320	20	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
4-Nitroaniline	ND		320	87	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
4-Nitrophenol	ND		320	120	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Acenaphthene	ND		170	25	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Acenaphthylene	ND		170	22	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Acetophenone	ND		170	23	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Anthracene	ND		170	41	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Atrazine	ND		170	58	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Benzaldehyde	ND		170	130	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Benzo[a]anthracene	ND		170	17	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Benzo[a]pyrene	ND		170	25	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Bis(2-chloroethoxy)methane	ND		170	35	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Caprolactam	ND		170	50	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Carbazole	ND		170	20	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Chrysene	ND		170	37	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Dibenz(a,h)anthracene	ND		170	29	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Di-n-butyl phthalate	ND		170	28	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Dibenzofuran	ND		170	20	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Diethyl phthalate	ND		170	22	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Dimethyl phthalate	ND		170	20	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Fluoranthene	ND		170	18	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Fluorene	ND		170	20	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Hexachlorobenzene	ND		170	23	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Hexachlorobutadiene	ND		170	25	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Hexachloroethane	ND		170	22	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Isophorone	ND		170	35	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
N-Nitrosodi-n-propylamine	ND		170	28	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Naphthalene	ND		170	22	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Nitrobenzene	ND		170	19	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Pentachlorophenol	ND		320	170	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Phenanthrene	ND		170	25	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Phenol	ND		170	26	ug/Kg		06/03/16 07:31	06/06/16 12:19	1
Pyrene	ND		170	20	ug/Kg		06/03/16 07:31	06/06/16 12:19	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-304908/1-A**

**Matrix: Solid**

**Analysis Batch: 305196**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 304908**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5 (Surr)	85		34 - 132	06/03/16 07:31	06/06/16 12:19	1
Phenol-d5 (Surr)	75		11 - 120	06/03/16 07:31	06/06/16 12:19	1
p-Terphenyl-d14 (Surr)	94		65 - 153	06/03/16 07:31	06/06/16 12:19	1
2,4,6-Tribromophenol (Surr)	99		39 - 146	06/03/16 07:31	06/06/16 12:19	1
2-Fluorobiphenyl	89		37 - 120	06/03/16 07:31	06/06/16 12:19	1
2-Fluorophenol (Surr)	73		18 - 120	06/03/16 07:31	06/06/16 12:19	1

**Lab Sample ID: LCS 480-304908/2-A**

**Matrix: Solid**

**Analysis Batch: 305196**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 304908**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Biphenyl	1620	1350		ug/Kg		83	71 - 120
bis (2-chloroisopropyl) ether	1620	964		ug/Kg		59	44 - 120
2,4,5-Trichlorophenol	1620	1490		ug/Kg		92	59 - 126
2,4,6-Trichlorophenol	1620	1540		ug/Kg		95	59 - 123
2,4-Dichlorophenol	1620	1470		ug/Kg		91	52 - 120
2,4-Dimethylphenol	1620	1490		ug/Kg		92	36 - 120
2,4-Dinitrophenol	3250	3010		ug/Kg		92	35 - 146
2,4-Dinitrotoluene	1620	1620		ug/Kg		100	55 - 125
2,6-Dinitrotoluene	1620	1510		ug/Kg		93	66 - 128
2-Chloronaphthalene	1620	1350		ug/Kg		83	57 - 120
2-Chlorophenol	1620	1210		ug/Kg		74	38 - 120
2-Methylphenol	1620	1190		ug/Kg		73	48 - 120
2-Methylnaphthalene	1620	1370		ug/Kg		84	47 - 120
2-Nitroaniline	1620	1450		ug/Kg		89	61 - 130
2-Nitrophenol	1620	1400		ug/Kg		86	50 - 120
3,3'-Dichlorobenzidine	3250	2840		ug/Kg		88	48 - 126
3-Nitroaniline	1620	1370		ug/Kg		84	61 - 127
4,6-Dinitro-2-methylphenol	3250	3320		ug/Kg		102	49 - 155
4-Bromophenyl phenyl ether	1620	1580		ug/Kg		97	58 - 131
4-Chloro-3-methylphenol	1620	1620		ug/Kg		100	49 - 125
4-Chloroaniline	1620	1220		ug/Kg		75	49 - 120
4-Chlorophenyl phenyl ether	1620	1530		ug/Kg		94	63 - 124
4-Methylphenol	1620	1220		ug/Kg		75	50 - 119
4-Nitroaniline	1620	1470		ug/Kg		91	63 - 128
4-Nitrophenol	3250	4490 *		ug/Kg		138	43 - 137
Acenaphthene	1620	1410		ug/Kg		87	53 - 120
Acenaphthylene	1620	1400		ug/Kg		86	58 - 121
Acetophenone	1620	1240		ug/Kg		77	66 - 120
Anthracene	1620	1530		ug/Kg		94	62 - 129
Atrazine	3250	3740		ug/Kg		115	60 - 164
Benzaldehyde	3250	1480		ug/Kg		45	21 - 120
Benzo[a]anthracene	1620	1470		ug/Kg		91	65 - 133
Benzo[a]pyrene	1620	1540		ug/Kg		95	64 - 127
Benzo[b]fluoranthene	1620	1560		ug/Kg		96	64 - 135
Benzo[g,h,i]perylene	1620	1510		ug/Kg		93	50 - 152
Benzo[k]fluoranthene	1620	1450		ug/Kg		89	58 - 138

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-304908/2-A**

**Matrix: Solid**

**Analysis Batch: 305196**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 304908**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1620	1220		ug/Kg		75	61 - 133
Bis(2-chloroethyl)ether	1620	1050		ug/Kg		64	45 - 120
Bis(2-ethylhexyl) phthalate	1620	1640		ug/Kg		101	61 - 133
Butyl benzyl phthalate	1620	1570		ug/Kg		96	61 - 129
Caprolactam	3250	2650		ug/Kg		81	54 - 133
Carbazole	1620	1520		ug/Kg		94	59 - 129
Chrysene	1620	1470		ug/Kg		91	64 - 131
Dibenz(a,h)anthracene	1620	1530		ug/Kg		94	54 - 148
Di-n-butyl phthalate	1620	1720		ug/Kg		106	58 - 130
Di-n-octyl phthalate	1620	1630		ug/Kg		100	62 - 133
Dibenzofuran	1620	1440		ug/Kg		89	56 - 120
Diethyl phthalate	1620	1720		ug/Kg		106	66 - 126
Dimethyl phthalate	1620	1590		ug/Kg		98	65 - 124
Fluoranthene	1620	1640		ug/Kg		101	62 - 131
Fluorene	1620	1470		ug/Kg		90	63 - 126
Hexachlorobenzene	1620	1670		ug/Kg		103	60 - 132
Hexachlorobutadiene	1620	1660		ug/Kg		102	45 - 120
Hexachlorocyclopentadiene	1620	1250		ug/Kg		77	31 - 120
Hexachloroethane	1620	1210		ug/Kg		74	41 - 120
Indeno[1,2,3-cd]pyrene	1620	1530		ug/Kg		94	56 - 149
Isophorone	1620	1360		ug/Kg		83	56 - 120
N-Nitrosodi-n-propylamine	1620	1200		ug/Kg		74	46 - 120
Naphthalene	1620	1310		ug/Kg		81	46 - 120
Nitrobenzene	1620	1280		ug/Kg		79	49 - 120
Pentachlorophenol	3250	3070		ug/Kg		95	33 - 136
Phenanthrene	1620	1470		ug/Kg		90	60 - 130
Phenol	1620	1120		ug/Kg		69	36 - 120
Pyrene	1620	1460		ug/Kg		90	51 - 133

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	85		34 - 132
Phenol-d5 (Surr)	70		11 - 120
p-Terphenyl-d14 (Surr)	88		65 - 153
2,4,6-Tribromophenol (Surr)	118		39 - 146
2-Fluorobiphenyl	84		37 - 120
2-Fluorophenol (Surr)	67		18 - 120

**Lab Sample ID: 480-100861-2 MS**

**Matrix: Solid**

**Analysis Batch: 305196**

**Client Sample ID: RI MW-5 (6-8)**

**Prep Type: Total/NA**

**Prep Batch: 304908**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Biphenyl	ND		2170	1800		ug/Kg	☼	83	71 - 120
bis (2-chloroisopropyl) ether	ND		2170	1200		ug/Kg	☼	55	44 - 120
2,4,5-Trichlorophenol	ND		2170	2070		ug/Kg	☼	95	59 - 126
2,4,6-Trichlorophenol	ND		2170	2020		ug/Kg	☼	93	59 - 123
2,4-Dichlorophenol	ND		2170	1930		ug/Kg	☼	89	52 - 120
2,4-Dimethylphenol	ND		2170	1920		ug/Kg	☼	88	36 - 120

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-100861-2 MS**

**Matrix: Solid**

**Analysis Batch: 305196**

**Client Sample ID: RI MW-5 (6-8)**

**Prep Type: Total/NA**

**Prep Batch: 304908**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
2,4-Dinitrophenol	ND		4340	3840		ug/Kg	*	88	35 - 146
2,4-Dinitrotoluene	ND		2170	2200		ug/Kg	*	101	55 - 125
2,6-Dinitrotoluene	ND		2170	2060		ug/Kg	*	95	66 - 128
2-Chloronaphthalene	ND		2170	1760		ug/Kg	*	81	57 - 120
2-Chlorophenol	ND		2170	1550		ug/Kg	*	71	38 - 120
2-Methylphenol	ND		2170	1540		ug/Kg	*	71	48 - 120
2-Methylnaphthalene	ND		2170	1770		ug/Kg	*	82	47 - 120
2-Nitroaniline	ND		2170	1970		ug/Kg	*	91	61 - 130
2-Nitrophenol	ND		2170	1870		ug/Kg	*	86	50 - 120
3,3'-Dichlorobenzidine	ND		4340	3900		ug/Kg	*	90	48 - 126
3-Nitroaniline	ND		2170	1800		ug/Kg	*	83	61 - 127
4,6-Dinitro-2-methylphenol	ND		4340	4590		ug/Kg	*	106	49 - 155
4-Bromophenyl phenyl ether	ND		2170	2200		ug/Kg	*	101	58 - 131
4-Chloro-3-methylphenol	ND		2170	2170		ug/Kg	*	100	49 - 125
4-Chloroaniline	ND		2170	1530		ug/Kg	*	70	49 - 120
4-Chlorophenyl phenyl ether	ND		2170	2060		ug/Kg	*	95	63 - 124
4-Methylphenol	ND		2170	1640		ug/Kg	*	76	50 - 119
4-Nitroaniline	ND		2170	1900		ug/Kg	*	88	63 - 128
4-Nitrophenol	ND	* F1	4340	6490	F1	ug/Kg	*	150	43 - 137
Acenaphthene	ND		2170	1860		ug/Kg	*	86	53 - 120
Acenaphthylene	ND		2170	1880		ug/Kg	*	87	58 - 121
Acetophenone	ND		2170	1650		ug/Kg	*	76	66 - 120
Anthracene	ND		2170	2080		ug/Kg	*	96	62 - 129
Atrazine	ND		4340	5060		ug/Kg	*	117	60 - 164
Benzaldehyde	ND		4340	1960		ug/Kg	*	45	21 - 120
Benzo[a]anthracene	ND		2170	1990		ug/Kg	*	92	65 - 133
Benzo[a]pyrene	ND		2170	2080		ug/Kg	*	96	64 - 127
Benzo[b]fluoranthene	ND		2170	2170		ug/Kg	*	100	64 - 135
Benzo[g,h,i]perylene	ND		2170	1990		ug/Kg	*	91	50 - 152
Benzo[k]fluoranthene	ND		2170	1900		ug/Kg	*	87	58 - 138
Bis(2-chloroethoxy)methane	ND		2170	1580		ug/Kg	*	73	61 - 133
Bis(2-chloroethyl)ether	ND		2170	1380		ug/Kg	*	63	45 - 120
Bis(2-ethylhexyl) phthalate	ND		2170	2380		ug/Kg	*	110	61 - 133
Butyl benzyl phthalate	ND		2170	2210		ug/Kg	*	102	61 - 129
Caprolactam	ND		4340	3620		ug/Kg	*	83	54 - 133
Carbazole	ND		2170	2050		ug/Kg	*	94	59 - 129
Chrysene	ND		2170	1990		ug/Kg	*	92	64 - 131
Dibenz(a,h)anthracene	ND		2170	2050		ug/Kg	*	94	54 - 148
Di-n-butyl phthalate	ND		2170	2400		ug/Kg	*	110	58 - 130
Di-n-octyl phthalate	ND		2170	2340		ug/Kg	*	108	62 - 133
Dibenzofuran	ND		2170	1930		ug/Kg	*	89	56 - 120
Diethyl phthalate	ND		2170	2320		ug/Kg	*	107	66 - 126
Dimethyl phthalate	ND		2170	2170		ug/Kg	*	100	65 - 124
Fluoranthene	ND		2170	2220		ug/Kg	*	102	62 - 131
Fluorene	ND		2170	2030		ug/Kg	*	93	63 - 126
Hexachlorobenzene	ND		2170	2260		ug/Kg	*	104	60 - 132
Hexachlorobutadiene	ND		2170	2100		ug/Kg	*	97	45 - 120
Hexachlorocyclopentadiene	ND		2170	1470		ug/Kg	*	68	31 - 120

TestAmerica Buffalo



# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-100861-2 MS**

**Matrix: Solid**

**Analysis Batch: 305196**

**Client Sample ID: RI MW-5 (6-8)**

**Prep Type: Total/NA**

**Prep Batch: 304908**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Hexachloroethane	ND		2170	1540		ug/Kg	☼	71	41 - 120	
Indeno[1,2,3-cd]pyrene	ND		2170	2070		ug/Kg	☼	95	56 - 149	
Isophorone	ND		2170	1750		ug/Kg	☼	81	56 - 120	
N-Nitrosodi-n-propylamine	ND		2170	1570		ug/Kg	☼	72	46 - 120	
Naphthalene	ND		2170	1650		ug/Kg	☼	76	46 - 120	
Nitrobenzene	ND		2170	1650		ug/Kg	☼	76	49 - 120	
Pentachlorophenol	ND		4340	4290		ug/Kg	☼	99	33 - 136	
Phenanthrene	ND		2170	2020		ug/Kg	☼	93	60 - 130	
Phenol	ND		2170	1450		ug/Kg	☼	67	36 - 120	
Pyrene	ND		2170	2060		ug/Kg	☼	95	51 - 133	

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	78		34 - 132
Phenol-d5 (Surr)	68		11 - 120
p-Terphenyl-d14 (Surr)	91		65 - 153
2,4,6-Tribromophenol (Surr)	120		39 - 146
2-Fluorobiphenyl	82		37 - 120
2-Fluorophenol (Surr)	66		18 - 120

**Lab Sample ID: 480-100861-2 MSD**

**Matrix: Solid**

**Analysis Batch: 305196**

**Client Sample ID: RI MW-5 (6-8)**

**Prep Type: Total/NA**

**Prep Batch: 304908**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						RPD	Limit
Biphenyl	ND		2140	1740		ug/Kg	☼	81	71 - 120	3	20	
bis (2-chloroisopropyl) ether	ND		2140	1150		ug/Kg	☼	54	44 - 120	4	24	
2,4,5-Trichlorophenol	ND		2140	2020		ug/Kg	☼	95	59 - 126	2	18	
2,4,6-Trichlorophenol	ND		2140	2010		ug/Kg	☼	94	59 - 123	0	19	
2,4-Dichlorophenol	ND		2140	1960		ug/Kg	☼	91	52 - 120	1	19	
2,4-Dimethylphenol	ND		2140	1930		ug/Kg	☼	90	36 - 120	0	42	
2,4-Dinitrophenol	ND		4280	4200		ug/Kg	☼	98	35 - 146	9	22	
2,4-Dinitrotoluene	ND		2140	2120		ug/Kg	☼	99	55 - 125	4	20	
2,6-Dinitrotoluene	ND		2140	1980		ug/Kg	☼	93	66 - 128	4	15	
2-Chloronaphthalene	ND		2140	1720		ug/Kg	☼	80	57 - 120	2	21	
2-Chlorophenol	ND		2140	1490		ug/Kg	☼	70	38 - 120	4	25	
2-Methylphenol	ND		2140	1480		ug/Kg	☼	69	48 - 120	4	27	
2-Methylnaphthalene	ND		2140	1770		ug/Kg	☼	83	47 - 120	0	21	
2-Nitroaniline	ND		2140	1970		ug/Kg	☼	92	61 - 130	0	15	
2-Nitrophenol	ND		2140	1830		ug/Kg	☼	85	50 - 120	2	18	
3,3'-Dichlorobenzidine	ND		4280	3760		ug/Kg	☼	88	48 - 126	4	25	
3-Nitroaniline	ND		2140	1750		ug/Kg	☼	82	61 - 127	3	19	
4,6-Dinitro-2-methylphenol	ND		4280	4270		ug/Kg	☼	100	49 - 155	7	15	
4-Bromophenyl phenyl ether	ND		2140	2110		ug/Kg	☼	99	58 - 131	4	15	
4-Chloro-3-methylphenol	ND		2140	2100		ug/Kg	☼	98	49 - 125	3	27	
4-Chloroaniline	ND		2140	1500		ug/Kg	☼	70	49 - 120	2	22	
4-Chlorophenyl phenyl ether	ND		2140	2010		ug/Kg	☼	94	63 - 124	2	16	
4-Methylphenol	ND		2140	1580		ug/Kg	☼	74	50 - 119	4	24	
4-Nitroaniline	ND		2140	1920		ug/Kg	☼	90	63 - 128	1	24	

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-100861-2 MSD**

**Matrix: Solid**

**Analysis Batch: 305196**

**Client Sample ID: RI MW-5 (6-8)**

**Prep Type: Total/NA**

**Prep Batch: 304908**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
4-Nitrophenol	ND	* F1	4280	6050	F1	ug/Kg	*	141	43 - 137	7	25
Acenaphthene	ND		2140	1810		ug/Kg	*	85	53 - 120	3	35
Acenaphthylene	ND		2140	1790		ug/Kg	*	84	58 - 121	5	18
Acetophenone	ND		2140	1580		ug/Kg	*	74	66 - 120	5	20
Anthracene	ND		2140	1990		ug/Kg	*	93	62 - 129	4	15
Atrazine	ND		4280	5060		ug/Kg	*	118	60 - 164	0	20
Benzaldehyde	ND		4280	1850		ug/Kg	*	43	21 - 120	6	20
Benzo[a]anthracene	ND		2140	1910		ug/Kg	*	89	65 - 133	4	15
Benzo[a]pyrene	ND		2140	1970		ug/Kg	*	92	64 - 127	6	15
Benzo[b]fluoranthene	ND		2140	1930		ug/Kg	*	90	64 - 135	12	15
Benzo[g,h,i]perylene	ND		2140	1920		ug/Kg	*	90	50 - 152	3	15
Benzo[k]fluoranthene	ND		2140	2010		ug/Kg	*	94	58 - 138	6	22
Bis(2-chloroethoxy)methane	ND		2140	1600		ug/Kg	*	75	61 - 133	1	17
Bis(2-chloroethyl)ether	ND		2140	1290		ug/Kg	*	60	45 - 120	7	21
Bis(2-ethylhexyl) phthalate	ND		2140	2310		ug/Kg	*	108	61 - 133	3	15
Butyl benzyl phthalate	ND		2140	2120		ug/Kg	*	99	61 - 129	4	16
Caprolactam	ND		4280	3650		ug/Kg	*	85	54 - 133	1	20
Carbazole	ND		2140	1980		ug/Kg	*	92	59 - 129	4	20
Chrysene	ND		2140	1950		ug/Kg	*	91	64 - 131	2	15
Dibenz(a,h)anthracene	ND		2140	1950		ug/Kg	*	91	54 - 148	5	15
Di-n-butyl phthalate	ND		2140	2360		ug/Kg	*	110	58 - 130	1	15
Di-n-octyl phthalate	ND		2140	2260		ug/Kg	*	106	62 - 133	4	16
Dibenzofuran	ND		2140	1890		ug/Kg	*	88	56 - 120	2	15
Diethyl phthalate	ND		2140	2340		ug/Kg	*	109	66 - 126	1	15
Dimethyl phthalate	ND		2140	2100		ug/Kg	*	98	65 - 124	3	15
Fluoranthene	ND		2140	2120		ug/Kg	*	99	62 - 131	5	15
Fluorene	ND		2140	1940		ug/Kg	*	90	63 - 126	5	15
Hexachlorobenzene	ND		2140	2210		ug/Kg	*	103	60 - 132	2	15
Hexachlorobutadiene	ND		2140	1990		ug/Kg	*	93	45 - 120	5	44
Hexachlorocyclopentadiene	ND		2140	1460		ug/Kg	*	68	31 - 120	1	49
Hexachloroethane	ND		2140	1350		ug/Kg	*	63	41 - 120	13	46
Indeno[1,2,3-cd]pyrene	ND		2140	1950		ug/Kg	*	91	56 - 149	6	15
Isophorone	ND		2140	1720		ug/Kg	*	81	56 - 120	2	17
N-Nitrosodi-n-propylamine	ND		2140	1530		ug/Kg	*	71	46 - 120	3	31
Naphthalene	ND		2140	1610		ug/Kg	*	75	46 - 120	2	29
Nitrobenzene	ND		2140	1670		ug/Kg	*	78	49 - 120	1	24
Pentachlorophenol	ND		4280	4190		ug/Kg	*	98	33 - 136	2	35
Phenanthrene	ND		2140	1950		ug/Kg	*	91	60 - 130	4	15
Phenol	ND		2140	1410		ug/Kg	*	66	36 - 120	2	35
Pyrene	ND		2140	1970		ug/Kg	*	92	51 - 133	4	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	80		34 - 132
Phenol-d5 (Surr)	70		11 - 120
p-Terphenyl-d14 (Surr)	93		65 - 153
2,4,6-Tribromophenol (Surr)	119		39 - 146
2-Fluorobiphenyl	83		37 - 120
2-Fluorophenol (Surr)	65		18 - 120

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 480-304352/1-A**

**Matrix: Solid**

**Analysis Batch: 304335**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 304352**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.040	mg/Kg		05/31/16 11:25	05/31/16 18:35	1
PCB-1221	ND		0.20	0.040	mg/Kg		05/31/16 11:25	05/31/16 18:35	1
PCB-1232	ND		0.20	0.040	mg/Kg		05/31/16 11:25	05/31/16 18:35	1
PCB-1242	ND		0.20	0.040	mg/Kg		05/31/16 11:25	05/31/16 18:35	1
PCB-1248	ND		0.20	0.040	mg/Kg		05/31/16 11:25	05/31/16 18:35	1
PCB-1254	ND		0.20	0.096	mg/Kg		05/31/16 11:25	05/31/16 18:35	1
PCB-1260	ND		0.20	0.096	mg/Kg		05/31/16 11:25	05/31/16 18:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	113		60 - 154	05/31/16 11:25	05/31/16 18:35	1
Tetrachloro-m-xylene	118		60 - 154	05/31/16 11:25	05/31/16 18:35	1
DCB Decachlorobiphenyl	122		65 - 174	05/31/16 11:25	05/31/16 18:35	1
DCB Decachlorobiphenyl	111		65 - 174	05/31/16 11:25	05/31/16 18:35	1

**Lab Sample ID: LCS 480-304352/2-A**

**Matrix: Solid**

**Analysis Batch: 304335**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 304352**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.01	2.51		mg/Kg		125	51 - 185
PCB-1260	2.01	2.59		mg/Kg		129	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	131		60 - 154
Tetrachloro-m-xylene	128		60 - 154
DCB Decachlorobiphenyl	143		65 - 174
DCB Decachlorobiphenyl	129		65 - 174

**Lab Sample ID: 480-100861-2 MS**

**Matrix: Solid**

**Analysis Batch: 304335**

**Client Sample ID: RI MW-5 (6-8)**

**Prep Type: Total/NA**

**Prep Batch: 304352**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		3.15	4.02		mg/Kg	☼	127	50 - 177
PCB-1260	ND		3.15	4.07		mg/Kg	☼	129	33 - 200

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	129		60 - 154
Tetrachloro-m-xylene	128		60 - 154
DCB Decachlorobiphenyl	140		65 - 174
DCB Decachlorobiphenyl	126		65 - 174

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 480-100861-2 MSD**

**Matrix: Solid**

**Analysis Batch: 304335**

**Client Sample ID: RI MW-5 (6-8)**

**Prep Type: Total/NA**

**Prep Batch: 304352**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Result	Qualifier		Result	Qualifier							
PCB-1016	ND		2.95	4.26		mg/Kg	☼	144	50 - 177	6		50
PCB-1260	ND		2.95	4.34		mg/Kg	☼	147	33 - 200	7		50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>									
Tetrachloro-m-xylene	146		60 - 154									
Tetrachloro-m-xylene	144		60 - 154									
DCB Decachlorobiphenyl	160		65 - 174									
DCB Decachlorobiphenyl	142		65 - 174									

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 480-304383/1-A**

**Matrix: Solid**

**Analysis Batch: 304725**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 304383**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		9.5		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Antimony	ND		14.2		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Arsenic	ND		1.9		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Barium	ND		0.47		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Beryllium	ND		0.19		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Cadmium	ND		0.19		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Calcium	ND		47.3		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Chromium	ND		0.47		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Cobalt	ND		0.47		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Copper	ND		0.95		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Iron	ND	^	9.5		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Lead	ND		0.95		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Magnesium	ND		18.9		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Manganese	ND		0.19		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Nickel	ND		4.7		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Potassium	ND		28.4		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Silver	ND		0.57		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Sodium	ND		132		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Thallium	ND		5.7		mg/Kg		06/01/16 08:50	06/02/16 07:45	1
Vanadium	ND		0.47		mg/Kg		06/01/16 08:50	06/02/16 07:45	1

**Lab Sample ID: LCDSRM 480-304383/3-A**

**Matrix: Solid**

**Analysis Batch: 304725**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 304383**

Analyte	Spike	LCDSRM	LCDSRM	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
		Result	Qualifier							
Aluminum	7930	8758		mg/Kg		110.4	39.0 - 161.4	2		20
Antimony	105	72.69		mg/Kg		69.2	20.4 - 254.3	17		20
Arsenic	98.5	82.36		mg/Kg		83.6	69.3 - 145.2	4		20

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: LCDSRM 480-304383/3-A**  
**Matrix: Solid**  
**Analysis Batch: 304725**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 304383**

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
							Limits		
Barium	308	261.5		mg/Kg		84.9	74.0 - 126.0	7	20
Beryllium	66.0	55.17		mg/Kg		83.6	73.6 - 126.4	8	20
Cadmium	146	137.5		mg/Kg		94.2	73.3 - 126.7	15	20
Calcium	6610	5640		mg/Kg		85.3	74.1 - 125.9	6	20
Chromium	182	166.4		mg/Kg		91.4	70.9 - 129.7	5	20
Cobalt	162	156.1		mg/Kg		96.3	74.1 - 125.3	8	20
Copper	106	92.37		mg/Kg		87.1	74.5 - 125.5	8	20
Iron	14400	12610 ^		mg/Kg		87.6	35.6 - 163.9	8	20
Lead	130	117.6		mg/Kg		90.5	72.5 - 126.9	3	20
Magnesium	2640	2460		mg/Kg		93.2	64.4 - 136.0	1	20
Manganese	410	370.6		mg/Kg		90.4	76.3 - 123.9	9	20
Nickel	149	148.0		mg/Kg		99.3	73.2 - 126.8	7	20
Potassium	2550	2581		mg/Kg		101.2	60.8 - 138.8	2	20
Silver	40.9	35.11		mg/Kg		85.8	66.0 - 133.7	5	20
Sodium	2480	2437		mg/Kg		98.3	65.3 - 134.3	13	20
Thallium	175	181.4		mg/Kg		103.7	68.6 - 130.9	13	20
Vanadium	96.7	89.34		mg/Kg		92.4	64.4 - 135.5	7	20

**Lab Sample ID: LCSSRM 480-304383/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304725**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304383**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
							Limits		
Aluminum	7930	8596		mg/Kg		108.4	39.0 - 161.4		
Antimony	105	61.20		mg/Kg		58.3	20.4 - 254.3		
Arsenic	98.5	79.47		mg/Kg		80.7	69.3 - 145.2		
Barium	308	244.9		mg/Kg		79.5	74.0 - 126.0		
Beryllium	66.0	50.97		mg/Kg		77.2	73.6 - 126.4		
Cadmium	146	118.9		mg/Kg		81.4	73.3 - 126.7		
Calcium	6610	5293		mg/Kg		80.1	74.1 - 125.9		

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: LCSSRM 480-304383/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304725**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304383**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	182	159.0		mg/Kg		87.4	70.9 - 129.7
Cobalt	162	144.7		mg/Kg		89.3	74.1 - 125.3
Copper	106	85.43		mg/Kg		80.6	74.5 - 125.5
Iron	14400	13720	^	mg/Kg		95.3	35.6 - 163.9
Lead	130	114.3		mg/Kg		88.0	72.5 - 126.9
Magnesium	2640	2431		mg/Kg		92.1	64.4 - 136.0
Manganese	410	339.9		mg/Kg		82.9	76.3 - 123.9
Nickel	149	137.8		mg/Kg		92.5	73.2 - 126.8
Potassium	2550	2526		mg/Kg		99.1	60.8 - 138.8
Silver	40.9	33.37		mg/Kg		81.6	66.0 - 133.7
Sodium	2480	2137		mg/Kg		86.2	65.3 - 134.3
Thallium	175	159.2		mg/Kg		91.0	68.6 - 130.9
Vanadium	96.7	83.72		mg/Kg		86.6	64.4 - 135.5

**Lab Sample ID: MB 480-304722/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304905**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304722**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		3.9		mg/Kg		06/02/16 11:55	06/03/16 10:19	1
Zinc	ND		2.0		mg/Kg		06/02/16 11:55	06/03/16 10:19	1

**Lab Sample ID: LCDSRM 480-304722/18-A**  
**Matrix: Solid**  
**Analysis Batch: 304905**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 304722**

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Selenium	154	129.9		mg/Kg		84.4	67.5 - 132.5	1	20
Zinc	191	157.8		mg/Kg		82.6	69.6 - 130.4	4	20

**Lab Sample ID: LCSSRM 480-304722/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304905**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304722**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	154	130.8		mg/Kg		85.0	67.5 - 132.5

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID:** LCSSRM 480-304722/2-A  
**Matrix:** Solid  
**Analysis Batch:** 304905

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 304722

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	191	164.9		mg/Kg		86.3	69.6 - 130.4

**Lab Sample ID:** 480-100861-6 MS  
**Matrix:** Solid  
**Analysis Batch:** 304905

**Client Sample ID:** RI MW-9 (0-2)  
**Prep Type:** Total/NA  
**Prep Batch:** 304722

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	ND		46.5	41.50		mg/Kg	⊛	89	75 - 125
Zinc	58.7	F1 F2	46.5	97.90		mg/Kg	⊛	84	75 - 125

**Lab Sample ID:** 480-100861-6 MSD  
**Matrix:** Solid  
**Analysis Batch:** 304905

**Client Sample ID:** RI MW-9 (0-2)  
**Prep Type:** Total/NA  
**Prep Batch:** 304722

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	ND		43.4	37.60		mg/Kg	⊛	87	75 - 125	10	20
Zinc	58.7	F1 F2	43.4	122.0	F1 F2	mg/Kg	⊛	146	75 - 125	22	20

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID:** MB 480-304612/1-A  
**Matrix:** Solid  
**Analysis Batch:** 305033

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 304612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020		mg/Kg		06/03/16 10:05	06/03/16 15:42	1

**Lab Sample ID:** LCSSRM 480-304612/2-A ^5  
**Matrix:** Solid  
**Analysis Batch:** 305033

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 304612

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	7.10	5.91		mg/Kg		83.3	51.3 - 149.3

## Method: 9012B - Cyanide, Total and/or Amenable

**Lab Sample ID:** MB 480-304591/1-A  
**Matrix:** Solid  
**Analysis Batch:** 304742

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 304591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.93		mg/Kg		06/01/16 14:55	06/02/16 11:28	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Method: 9012B - Cyanide, Total and/or Amenable (Continued)

**Lab Sample ID: LCSSRM 480-304591/2-A ^2**  
**Matrix: Solid**  
**Analysis Batch: 304742**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304591**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	39.6	50.46		mg/Kg		127.4	33.3 - 195.2

**Lab Sample ID: 480-100861-4 MS**  
**Matrix: Solid**  
**Analysis Batch: 304742**

**Client Sample ID: RI MW-8 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 304591**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND	F1	11.2	9.14	F1	mg/Kg	✱	82	85 - 115





# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## GC/MS VOA

### Prep Batch: 304193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-1	RI MW-2 (0-2)	Total/NA	Solid	5035A	
LCS 480-304193/1-A	Lab Control Sample	Total/NA	Solid	5035A	
LCS 480-304193/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A	
MB 480-304193/3-A	Method Blank	Total/NA	Solid	5035A	

### Analysis Batch: 304439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-1	RI MW-2 (0-2)	Total/NA	Solid	8260C	304193
LCS 480-304193/1-A	Lab Control Sample	Total/NA	Solid	8260C	304193
LCS 480-304193/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	304193
MB 480-304193/3-A	Method Blank	Total/NA	Solid	8260C	304193

## GC/MS Semi VOA

### Prep Batch: 304908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-2	RI MW-5 (6-8)	Total/NA	Solid	3550C	
480-100861-2 MS	RI MW-5 (6-8)	Total/NA	Solid	3550C	
480-100861-2 MSD	RI MW-5 (6-8)	Total/NA	Solid	3550C	
480-100861-3	BLIND DUP 2	Total/NA	Solid	3550C	
480-100861-4	RI MW-8 (0-2)	Total/NA	Solid	3550C	
480-100861-5	RI MW-7 (2-4)	Total/NA	Solid	3550C	
480-100861-6	RI MW-9 (0-2)	Total/NA	Solid	3550C	
480-100861-7	RI MW-10 (2-4)	Total/NA	Solid	3550C	
480-100861-8	RI SB-16 (0-5)	Total/NA	Solid	3550C	
LCS 480-304908/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-304908/1-A	Method Blank	Total/NA	Solid	3550C	

### Analysis Batch: 305196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-2	RI MW-5 (6-8)	Total/NA	Solid	8270D	304908
480-100861-2 MS	RI MW-5 (6-8)	Total/NA	Solid	8270D	304908
480-100861-2 MSD	RI MW-5 (6-8)	Total/NA	Solid	8270D	304908
480-100861-3	BLIND DUP 2	Total/NA	Solid	8270D	304908
480-100861-4	RI MW-8 (0-2)	Total/NA	Solid	8270D	304908
480-100861-5	RI MW-7 (2-4)	Total/NA	Solid	8270D	304908
480-100861-6	RI MW-9 (0-2)	Total/NA	Solid	8270D	304908
480-100861-7	RI MW-10 (2-4)	Total/NA	Solid	8270D	304908
480-100861-8	RI SB-16 (0-5)	Total/NA	Solid	8270D	304908
LCS 480-304908/2-A	Lab Control Sample	Total/NA	Solid	8270D	304908
MB 480-304908/1-A	Method Blank	Total/NA	Solid	8270D	304908

## GC Semi VOA

### Analysis Batch: 304335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-2	RI MW-5 (6-8)	Total/NA	Solid	8082A	304352
480-100861-2 MS	RI MW-5 (6-8)	Total/NA	Solid	8082A	304352
480-100861-2 MSD	RI MW-5 (6-8)	Total/NA	Solid	8082A	304352
480-100861-3	BLIND DUP 2	Total/NA	Solid	8082A	304352

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## GC Semi VOA (Continued)

### Analysis Batch: 304335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-4	RI MW-8 (0-2)	Total/NA	Solid	8082A	304352
480-100861-5	RI MW-7 (2-4)	Total/NA	Solid	8082A	304352
480-100861-6	RI MW-9 (0-2)	Total/NA	Solid	8082A	304352
480-100861-7	RI MW-10 (2-4)	Total/NA	Solid	8082A	304352
480-100861-8	RI SB-16 (0-5)	Total/NA	Solid	8082A	304352
LCS 480-304352/2-A	Lab Control Sample	Total/NA	Solid	8082A	304352
MB 480-304352/1-A	Method Blank	Total/NA	Solid	8082A	304352

### Prep Batch: 304352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-2	RI MW-5 (6-8)	Total/NA	Solid	3550C	
480-100861-2 MS	RI MW-5 (6-8)	Total/NA	Solid	3550C	
480-100861-2 MSD	RI MW-5 (6-8)	Total/NA	Solid	3550C	
480-100861-3	BLIND DUP 2	Total/NA	Solid	3550C	
480-100861-4	RI MW-8 (0-2)	Total/NA	Solid	3550C	
480-100861-5	RI MW-7 (2-4)	Total/NA	Solid	3550C	
480-100861-6	RI MW-9 (0-2)	Total/NA	Solid	3550C	
480-100861-7	RI MW-10 (2-4)	Total/NA	Solid	3550C	
480-100861-8	RI SB-16 (0-5)	Total/NA	Solid	3550C	
LCS 480-304352/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-304352/1-A	Method Blank	Total/NA	Solid	3550C	

## Metals

### Prep Batch: 304383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-2	RI MW-5 (6-8)	Total/NA	Solid	3050B	
480-100861-3	BLIND DUP 2	Total/NA	Solid	3050B	
480-100861-4	RI MW-8 (0-2)	Total/NA	Solid	3050B	
480-100861-5	RI MW-7 (2-4)	Total/NA	Solid	3050B	
480-100861-6	RI MW-9 (0-2)	Total/NA	Solid	3050B	
480-100861-7	RI MW-10 (2-4)	Total/NA	Solid	3050B	
480-100861-8	RI SB-16 (0-5)	Total/NA	Solid	3050B	
LCDSRM 480-304383/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 480-304383/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-304383/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 304612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-2	RI MW-5 (6-8)	Total/NA	Solid	7471B	
480-100861-3	BLIND DUP 2	Total/NA	Solid	7471B	
480-100861-4	RI MW-8 (0-2)	Total/NA	Solid	7471B	
480-100861-5	RI MW-7 (2-4)	Total/NA	Solid	7471B	
480-100861-6	RI MW-9 (0-2)	Total/NA	Solid	7471B	
480-100861-7	RI MW-10 (2-4)	Total/NA	Solid	7471B	
480-100861-8	RI SB-16 (0-5)	Total/NA	Solid	7471B	
LCSSRM 480-304612/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	
MB 480-304612/1-A	Method Blank	Total/NA	Solid	7471B	

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Metals (Continued)

### Prep Batch: 304722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-2	RI MW-5 (6-8)	Total/NA	Solid	3050B	
480-100861-3	BLIND DUP 2	Total/NA	Solid	3050B	
480-100861-4	RI MW-8 (0-2)	Total/NA	Solid	3050B	
480-100861-5	RI MW-7 (2-4)	Total/NA	Solid	3050B	
480-100861-6	RI MW-9 (0-2)	Total/NA	Solid	3050B	
480-100861-6 MS	RI MW-9 (0-2)	Total/NA	Solid	3050B	
480-100861-6 MSD	RI MW-9 (0-2)	Total/NA	Solid	3050B	
480-100861-7	RI MW-10 (2-4)	Total/NA	Solid	3050B	
480-100861-8	RI SB-16 (0-5)	Total/NA	Solid	3050B	
LCDSRM 480-304722/18-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 480-304722/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-304722/1-A	Method Blank	Total/NA	Solid	3050B	

### Analysis Batch: 304725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-2	RI MW-5 (6-8)	Total/NA	Solid	6010C	304383
480-100861-3	BLIND DUP 2	Total/NA	Solid	6010C	304383
480-100861-4	RI MW-8 (0-2)	Total/NA	Solid	6010C	304383
480-100861-5	RI MW-7 (2-4)	Total/NA	Solid	6010C	304383
480-100861-6	RI MW-9 (0-2)	Total/NA	Solid	6010C	304383
480-100861-7	RI MW-10 (2-4)	Total/NA	Solid	6010C	304383
480-100861-8	RI SB-16 (0-5)	Total/NA	Solid	6010C	304383
LCDSRM 480-304383/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	304383
LCSSRM 480-304383/2-A	Lab Control Sample	Total/NA	Solid	6010C	304383
MB 480-304383/1-A	Method Blank	Total/NA	Solid	6010C	304383

### Analysis Batch: 304905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-2	RI MW-5 (6-8)	Total/NA	Solid	6010C	304722
480-100861-3	BLIND DUP 2	Total/NA	Solid	6010C	304722
480-100861-4	RI MW-8 (0-2)	Total/NA	Solid	6010C	304722
480-100861-5	RI MW-7 (2-4)	Total/NA	Solid	6010C	304722
480-100861-6	RI MW-9 (0-2)	Total/NA	Solid	6010C	304722
480-100861-6 MS	RI MW-9 (0-2)	Total/NA	Solid	6010C	304722
480-100861-6 MSD	RI MW-9 (0-2)	Total/NA	Solid	6010C	304722
480-100861-7	RI MW-10 (2-4)	Total/NA	Solid	6010C	304722
480-100861-8	RI SB-16 (0-5)	Total/NA	Solid	6010C	304722
LCDSRM 480-304722/18-A	Lab Control Sample Dup	Total/NA	Solid	6010C	304722
LCSSRM 480-304722/2-A	Lab Control Sample	Total/NA	Solid	6010C	304722
MB 480-304722/1-A	Method Blank	Total/NA	Solid	6010C	304722

### Analysis Batch: 305033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-2	RI MW-5 (6-8)	Total/NA	Solid	7471B	304612
480-100861-3	BLIND DUP 2	Total/NA	Solid	7471B	304612
480-100861-4	RI MW-8 (0-2)	Total/NA	Solid	7471B	304612
480-100861-5	RI MW-7 (2-4)	Total/NA	Solid	7471B	304612
480-100861-6	RI MW-9 (0-2)	Total/NA	Solid	7471B	304612
480-100861-7	RI MW-10 (2-4)	Total/NA	Solid	7471B	304612
480-100861-8	RI SB-16 (0-5)	Total/NA	Solid	7471B	304612
LCSSRM 480-304612/2-A *5	Lab Control Sample	Total/NA	Solid	7471B	304612

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Metals (Continued)

### Analysis Batch: 305033 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-304612/1-A	Method Blank	Total/NA	Solid	7471B	304612

## General Chemistry

### Analysis Batch: 304206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-2	RI MW-5 (6-8)	Total/NA	Solid	Moisture	
480-100861-3	BLIND DUP 2	Total/NA	Solid	Moisture	
480-100861-4	RI MW-8 (0-2)	Total/NA	Solid	Moisture	
480-100861-5	RI MW-7 (2-4)	Total/NA	Solid	Moisture	
480-100861-6	RI MW-9 (0-2)	Total/NA	Solid	Moisture	
480-100861-7	RI MW-10 (2-4)	Total/NA	Solid	Moisture	
480-100861-8	RI SB-16 (0-5)	Total/NA	Solid	Moisture	

### Analysis Batch: 304344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-1	RI MW-2 (0-2)	Total/NA	Solid	Moisture	

### Prep Batch: 304591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-2	RI MW-5 (6-8)	Total/NA	Solid	9012B	
480-100861-3	BLIND DUP 2	Total/NA	Solid	9012B	
480-100861-4	RI MW-8 (0-2)	Total/NA	Solid	9012B	
480-100861-4 MS	RI MW-8 (0-2)	Total/NA	Solid	9012B	
480-100861-5	RI MW-7 (2-4)	Total/NA	Solid	9012B	
480-100861-6	RI MW-9 (0-2)	Total/NA	Solid	9012B	
480-100861-7	RI MW-10 (2-4)	Total/NA	Solid	9012B	
480-100861-8	RI SB-16 (0-5)	Total/NA	Solid	9012B	
LCSSRM 480-304591/2-A ^2	Lab Control Sample	Total/NA	Solid	9012B	
MB 480-304591/1-A	Method Blank	Total/NA	Solid	9012B	

### Analysis Batch: 304742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100861-2	RI MW-5 (6-8)	Total/NA	Solid	9012B	304591
480-100861-3	BLIND DUP 2	Total/NA	Solid	9012B	304591
480-100861-4	RI MW-8 (0-2)	Total/NA	Solid	9012B	304591
480-100861-4 MS	RI MW-8 (0-2)	Total/NA	Solid	9012B	304591
480-100861-5	RI MW-7 (2-4)	Total/NA	Solid	9012B	304591
480-100861-6	RI MW-9 (0-2)	Total/NA	Solid	9012B	304591
480-100861-7	RI MW-10 (2-4)	Total/NA	Solid	9012B	304591
480-100861-8	RI SB-16 (0-5)	Total/NA	Solid	9012B	304591
LCSSRM 480-304591/2-A ^2	Lab Control Sample	Total/NA	Solid	9012B	304591
MB 480-304591/1-A	Method Blank	Total/NA	Solid	9012B	304591

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Client Sample ID: RI MW-2 (0-2)

Lab Sample ID: 480-100861-1

Date Collected: 05/27/16 11:00

Matrix: Solid

Date Received: 05/27/16 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	304344	05/31/16 11:05	CDC	TAL BUF

## Client Sample ID: RI MW-2 (0-2)

Lab Sample ID: 480-100861-1

Date Collected: 05/27/16 11:00

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			304193	05/28/16 10:35	JWG	TAL BUF
Total/NA	Analysis	8260C		1	304439	06/01/16 00:32	CDC	TAL BUF

## Client Sample ID: RI MW-5 (6-8)

Lab Sample ID: 480-100861-2

Date Collected: 05/26/16 09:30

Matrix: Solid

Date Received: 05/27/16 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	304206	05/28/16 14:30	CMK	TAL BUF

## Client Sample ID: RI MW-5 (6-8)

Lab Sample ID: 480-100861-2

Date Collected: 05/26/16 09:30

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			304908	06/03/16 07:31	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	305196	06/06/16 14:05	LMW	TAL BUF
Total/NA	Prep	3550C			304352	05/31/16 11:25	CAM	TAL BUF
Total/NA	Analysis	8082A		1	304335	05/31/16 19:47	KS	TAL BUF
Total/NA	Prep	3050B			304383	06/01/16 08:50	CMM	TAL BUF
Total/NA	Analysis	6010C		1	304725	06/02/16 08:25	SLB	TAL BUF
Total/NA	Prep	3050B			304722	06/02/16 11:55	BAE	TAL BUF
Total/NA	Analysis	6010C		1	304905	06/03/16 10:29	AMH	TAL BUF
Total/NA	Prep	7471B			304612	06/03/16 10:05	KJ1	TAL BUF
Total/NA	Analysis	7471B		1	305033	06/03/16 16:10	KJ1	TAL BUF
Total/NA	Prep	9012B			304591	06/01/16 14:55	ZRJ	TAL BUF
Total/NA	Analysis	9012B		1	304742	06/02/16 11:41	KMF	TAL BUF

## Client Sample ID: BLIND DUP 2

Lab Sample ID: 480-100861-3

Date Collected: 05/26/16 08:00

Matrix: Solid

Date Received: 05/27/16 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	304206	05/28/16 14:30	CMK	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Client Sample ID: BLIND DUP 2

Lab Sample ID: 480-100861-3

Date Collected: 05/26/16 08:00

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			304908	06/03/16 07:31	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	305196	06/06/16 14:32	LMW	TAL BUF
Total/NA	Prep	3550C			304352	05/31/16 11:25	CAM	TAL BUF
Total/NA	Analysis	8082A		1	304335	05/31/16 20:05	KS	TAL BUF
Total/NA	Prep	3050B			304383	06/01/16 08:50	CMM	TAL BUF
Total/NA	Analysis	6010C		1	304725	06/02/16 08:29	SLB	TAL BUF
Total/NA	Prep	3050B			304722	06/02/16 11:55	BAE	TAL BUF
Total/NA	Analysis	6010C		1	304905	06/03/16 10:33	AMH	TAL BUF
Total/NA	Prep	7471B			304612	06/03/16 10:05	KJ1	TAL BUF
Total/NA	Analysis	7471B		1	305033	06/03/16 16:11	KJ1	TAL BUF
Total/NA	Prep	9012B			304591	06/01/16 14:55	ZRJ	TAL BUF
Total/NA	Analysis	9012B		1	304742	06/02/16 11:46	KMF	TAL BUF

## Client Sample ID: RI MW-8 (0-2)

Lab Sample ID: 480-100861-4

Date Collected: 05/26/16 09:45

Matrix: Solid

Date Received: 05/27/16 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	304206	05/28/16 14:30	CMK	TAL BUF

## Client Sample ID: RI MW-8 (0-2)

Lab Sample ID: 480-100861-4

Date Collected: 05/26/16 09:45

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			304908	06/03/16 07:31	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	305196	06/06/16 14:58	LMW	TAL BUF
Total/NA	Prep	3550C			304352	05/31/16 11:25	CAM	TAL BUF
Total/NA	Analysis	8082A		1	304335	05/31/16 20:24	KS	TAL BUF
Total/NA	Prep	3050B			304383	06/01/16 08:50	CMM	TAL BUF
Total/NA	Analysis	6010C		1	304725	06/02/16 08:32	SLB	TAL BUF
Total/NA	Prep	3050B			304722	06/02/16 11:55	BAE	TAL BUF
Total/NA	Analysis	6010C		1	304905	06/03/16 10:36	AMH	TAL BUF
Total/NA	Prep	7471B			304612	06/03/16 10:05	KJ1	TAL BUF
Total/NA	Analysis	7471B		1	305033	06/03/16 16:13	KJ1	TAL BUF
Total/NA	Prep	9012B			304591	06/01/16 14:55	ZRJ	TAL BUF
Total/NA	Analysis	9012B		1	304742	06/02/16 11:47	KMF	TAL BUF

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

**Client Sample ID: RI MW-7 (2-4)**

**Lab Sample ID: 480-100861-5**

Date Collected: 05/26/16 11:30

Matrix: Solid

Date Received: 05/27/16 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	304206	05/28/16 14:30	CMK	TAL BUF

**Client Sample ID: RI MW-7 (2-4)**

**Lab Sample ID: 480-100861-5**

Date Collected: 05/26/16 11:30

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			304908	06/03/16 07:31	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	305196	06/06/16 15:25	LMW	TAL BUF
Total/NA	Prep	3550C			304352	05/31/16 11:25	CAM	TAL BUF
Total/NA	Analysis	8082A		1	304335	05/31/16 20:42	KS	TAL BUF
Total/NA	Prep	3050B			304383	06/01/16 08:50	CMM	TAL BUF
Total/NA	Analysis	6010C		1	304725	06/02/16 08:36	SLB	TAL BUF
Total/NA	Prep	3050B			304722	06/02/16 11:55	BAE	TAL BUF
Total/NA	Analysis	6010C		1	304905	06/03/16 11:54	AMH	TAL BUF
Total/NA	Prep	7471B			304612	06/03/16 10:05	KJ1	TAL BUF
Total/NA	Analysis	7471B		1	305033	06/03/16 16:15	KJ1	TAL BUF
Total/NA	Prep	9012B			304591	06/01/16 14:55	ZRJ	TAL BUF
Total/NA	Analysis	9012B		1	304742	06/02/16 11:50	KMF	TAL BUF

**Client Sample ID: RI MW-9 (0-2)**

**Lab Sample ID: 480-100861-6**

Date Collected: 05/26/16 15:00

Matrix: Solid

Date Received: 05/27/16 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	304206	05/28/16 14:30	CMK	TAL BUF

**Client Sample ID: RI MW-9 (0-2)**

**Lab Sample ID: 480-100861-6**

Date Collected: 05/26/16 15:00

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			304908	06/03/16 07:31	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	305196	06/06/16 15:52	LMW	TAL BUF
Total/NA	Prep	3550C			304352	05/31/16 11:25	CAM	TAL BUF
Total/NA	Analysis	8082A		1	304335	05/31/16 21:00	KS	TAL BUF
Total/NA	Prep	3050B			304383	06/01/16 08:50	CMM	TAL BUF
Total/NA	Analysis	6010C		1	304725	06/02/16 08:39	SLB	TAL BUF
Total/NA	Prep	3050B			304722	06/02/16 11:55	BAE	TAL BUF
Total/NA	Analysis	6010C		1	304905	06/03/16 11:57	AMH	TAL BUF
Total/NA	Prep	7471B			304612	06/03/16 10:05	KJ1	TAL BUF
Total/NA	Analysis	7471B		1	305033	06/03/16 16:16	KJ1	TAL BUF
Total/NA	Prep	9012B			304591	06/01/16 14:55	ZRJ	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Client Sample ID: RI MW-9 (0-2)

Lab Sample ID: 480-100861-6

Date Collected: 05/26/16 15:00

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9012B		1	304742	06/02/16 11:51	KMF	TAL BUF

## Client Sample ID: RI MW-10 (2-4)

Lab Sample ID: 480-100861-7

Date Collected: 05/26/16 16:45

Matrix: Solid

Date Received: 05/27/16 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	304206	05/28/16 14:30	CMK	TAL BUF

## Client Sample ID: RI MW-10 (2-4)

Lab Sample ID: 480-100861-7

Date Collected: 05/26/16 16:45

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			304908	06/03/16 07:31	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	305196	06/06/16 16:18	LMW	TAL BUF
Total/NA	Prep	3550C			304352	05/31/16 11:25	CAM	TAL BUF
Total/NA	Analysis	8082A		1	304335	05/31/16 21:18	KS	TAL BUF
Total/NA	Prep	3050B			304383	06/01/16 08:50	CMM	TAL BUF
Total/NA	Analysis	6010C		1	304725	06/02/16 08:43	SLB	TAL BUF
Total/NA	Prep	3050B			304722	06/02/16 11:55	BAE	TAL BUF
Total/NA	Analysis	6010C		1	304905	06/03/16 11:17	AMH	TAL BUF
Total/NA	Prep	7471B			304612	06/03/16 10:05	KJ1	TAL BUF
Total/NA	Analysis	7471B		1	305033	06/03/16 16:18	KJ1	TAL BUF
Total/NA	Prep	9012B			304591	06/01/16 14:55	ZRJ	TAL BUF
Total/NA	Analysis	9012B		1	304742	06/02/16 11:53	KMF	TAL BUF

## Client Sample ID: RI SB-16 (0-5)

Lab Sample ID: 480-100861-8

Date Collected: 05/27/16 14:00

Matrix: Solid

Date Received: 05/27/16 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	304206	05/28/16 14:30	CMK	TAL BUF

## Client Sample ID: RI SB-16 (0-5)

Lab Sample ID: 480-100861-8

Date Collected: 05/27/16 14:00

Matrix: Solid

Date Received: 05/27/16 17:30

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			304908	06/03/16 07:31	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	305196	06/06/16 16:45	LMW	TAL BUF
Total/NA	Prep	3550C			304352	05/31/16 11:25	CAM	TAL BUF
Total/NA	Analysis	8082A		1	304335	05/31/16 21:36	KS	TAL BUF

TestAmerica Buffalo



## Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			304383	06/01/16 08:50	CMM	TAL BUF
Total/NA	Analysis	6010C		1	304725	06/02/16 08:46	SLB	TAL BUF
Total/NA	Prep	3050B			304722	06/02/16 11:55	BAE	TAL BUF
Total/NA	Analysis	6010C		1	304905	06/03/16 11:20	AMH	TAL BUF
Total/NA	Prep	7471B			304612	06/03/16 10:05	KJ1	TAL BUF
Total/NA	Analysis	7471B		1	305033	06/03/16 16:20	KJ1	TAL BUF
Total/NA	Prep	9012B			304591	06/01/16 14:55	ZRJ	TAL BUF
Total/NA	Analysis	9012B		1	304742	06/02/16 11:54	KMF	TAL BUF

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Certification Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

## Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Method Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Sample Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100861-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-100861-1	RI MW-2 (0-2)	Solid	05/27/16 11:00	05/27/16 17:30
480-100861-2	RI MW-5 (6-8)	Solid	05/26/16 09:30	05/27/16 17:30
480-100861-3	BLIND DUP 2	Solid	05/26/16 08:00	05/27/16 17:30
480-100861-4	RI MW-8 (0-2)	Solid	05/26/16 09:45	05/27/16 17:30
480-100861-5	RI MW-7 (2-4)	Solid	05/26/16 11:30	05/27/16 17:30
480-100861-6	RI MW-9 (0-2)	Solid	05/26/16 15:00	05/27/16 17:30
480-100861-7	RI MW-10 (2-4)	Solid	05/26/16 16:45	05/27/16 17:30
480-100861-8	RI SB-16 (0-5)	Solid	05/27/16 14:00	05/27/16 17:30

**Chain of Custody Record**

Temperature on Receipt \_\_\_\_\_

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

Drinking Water? Yes  No

TAL-4124 (1007)

Client: Turkey Project Manager: Chris Boron Date: 5/27/16 Chain of Custody Number: 190635

Address: 2558 Hamburg Turnpike Telephone Number (Area Code)/Fax Number: 716 856-0599 Lab Number: \_\_\_\_\_

City: Buffalo State: NY Zip Code: 14218 Site Contact: Paul W. Wotho Lab Contact: B Fischer Analysis (Attach list if more space is needed): \_\_\_\_\_

Project Name and Location (State): 791 Washington Carrier/Waybill Number: \_\_\_\_\_

Contract/Purchase Order/Quote No.: 0092-016-001-002-002

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives						TCL VOC	% Solids	TCL PCB	TCL Metals	TCL SVOC	Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH								
RI MW-2 (0-2)	5/27/16	1100				X									X	X					
RI MW-5 (6-8)	5/26/16	930														X	X	X			
Blind Dip 2	5/26/16	800														X	X	X			
RI MW-8 (0-2)	"	945														X	X	X			
RI MW-7 (2-4)	"	1130														X	X	X			
RI MW-9 (0-2)	"	1500														X	X	X			
RI MW-10 (2-4)	"	1645														X	X	X			



Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:  24 Hours  48 Hours  7 Days  14 Days  21 Days  Other Standard

QC Requirements (Specify): CAT-B

1. Relinquished By: <u>[Signature]</u>	Date: <u>5/27/16</u>	Time: <u>1730</u>	1. Received By: <u>[Signature]</u>	Date: <u>5/27/16</u>	Time: <u>1730</u>
2. Relinquished By: _____	Date: _____	Time: _____	2. Received By: _____	Date: _____	Time: _____
3. Relinquished By: _____	Date: _____	Time: _____	3. Received By: _____	Date: _____	Time: _____

Comments: 3.6°C #3

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6/7/2016



## Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-100861-1

**Login Number: 100861**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Williams, Christopher S**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	TURNKEY
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-101666-1

Client Project/Site: Benchmark - 791 Washington St., Buffalo

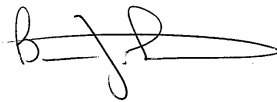
For:

Turnkey Environmental Restoration, LLC

2558 Hamburg Turnpike

Lackawanna, New York 14218

Attn: Mr. Christopher Z Boron



Authorized for release by:

6/20/2016 4:08:02 PM

Brian Fischer, Manager of Project Management

(716)504-9835

[brian.fischer@testamericainc.com](mailto:brian.fischer@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

### GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

## Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Job ID: 480-101666-1**

**Laboratory: TestAmerica Buffalo**

## Narrative

### Job Narrative 480-101666-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/15/2016 2:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 2.0° C, 2.1° C, 2.4° C, 2.6° C, 2.8° C, 2.9° C and 3.0° C.

#### GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-306892 recovered above the upper control limit for 1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 2-Hexanone, Carbon tetrachloride, Cyclohexane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: R1 MW-3 (480-101666-1), R1 MW-10 (480-101666-2), R1 MW-8 (480-101666-3), BLIND DUP (480-101666-4), R1 MW-6 (480-101666-5), R1 MW-9 (480-101666-6), R1 MW-7 (480-101666-7), R1 MW-2 (480-101666-8), R1 MW-1 (480-101666-9), R1 MW-4 (480-101666-10) and R1 MW-5 (480-101666-11).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-306892 recovered outside control limits for the following analyte: 1,1,1-Trichloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: R1 MW-3 (480-101666-1), R1 MW-10 (480-101666-2), R1 MW-8 (480-101666-3), BLIND DUP (480-101666-4), R1 MW-6 (480-101666-5), R1 MW-9 (480-101666-6), R1 MW-7 (480-101666-7), R1 MW-2 (480-101666-8), R1 MW-1 (480-101666-9), R1 MW-4 (480-101666-10) and R1 MW-5 (480-101666-11).

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: R1 MW-9 (480-101666-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: R1 MW-2 (480-101666-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: R1 MW-4 (480-101666-10). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was collected in a properly preserved vial for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: R1 MW-4 (480-101666-10). The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-306967 recovered above the upper control limit for Carbon disulfide. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following sample is impacted: TRIP BLANK (480-101666-13).

Method(s) 8260C: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: R1 MW-3 (480-101666-1) and R1 MW-4 (480-101666-10). The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-307089 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated sample was non-detect for this analyte, the data has been reported for the following affected samples R1 MW-9 (480-101666-6).

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: R1 MW-9 (480-101666-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

# Case Narrative

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Job ID: 480-101666-1 (Continued)

### Laboratory: TestAmerica Buffalo (Continued)

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-307034 recovered above the upper control limit for Benzaldehyde and Pentachlorophenol. The samples associated with this CCV were non-detects or below client reporting limits for the affected analytes; therefore, the data have been reported. The following samples are impacted: R1 MW-3 (480-101666-1), R1 MW-7 (480-101666-7), R1 MW-7 (480-101666-7[MS]), R1 MW-7 (480-101666-7[MSD]), R1 MW-1 (480-101666-9), R1 MW-4 (480-101666-10) and R1 MW-5 (480-101666-11).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-307218 recovered above the upper control limit for Benzaldehyde and Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: R1 MW-10 (480-101666-2), R1 MW-8 (480-101666-3), BLIND DUP (480-101666-4), R1 MW-6 (480-101666-5) and R1 MW-9 (480-101666-6).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-307365 recovered above the upper control limit for Benzaldehyde and Pentachlorophenol. The samples associated with this CCV were non-detects or below client reporting limit for the affected analytes; therefore, the data have been reported. The following sample is impacted: R1 MW-2 (480-101666-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC Semi VOA

Method(s) 8081B: The following samples were diluted due to the nature of the sample matrix: R1 MW-10 (480-101666-2), BLIND DUP (480-101666-4), R1 MW-9 (480-101666-6) and R1 MW-2 (480-101666-8). Elevated reporting limits (RLs) are provided.

Method(s) 8081B: For method 8081, the recovery of the one surrogate in samples R1 MW-10 (480-101666-2) exceeds quality control limits due to the sample matrix. The recovery of the secondary surrogate is within quality control criteria; no corrective action is required.

Method(s) 8081B: All primary data is reported from the RTX-CLP-II column.

Method(s) 8082A: All primary data is reported from the ZB-35 column.

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 480-307203 recovered above the upper control limit for 2,4,5-T, 2,4-D, and 2,4-Dichlorophenylacetic acid. The samples associated with this CCV were non-detects for all analytes; therefore, the data have been reported. The following samples are impacted: R1 MW-7 (480-101666-7), R1 MW-2 (480-101666-8), R1 MW-1 (480-101666-9), R1 MW-4 (480-101666-10) and R1 MW-5 (480-101666-11).

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 480-307040 recovered above the upper control limit for 2,4,5-T, Silvex (2,4,5-TP), 2,4-D, and 2,4-Dichlorophenylacetic acid. The samples associated with this CCV were non-detects for all analytes; therefore, the data have been reported. The following samples are impacted: R1 MW-3 (480-101666-1), R1 MW-10 (480-101666-2), R1 MW-8 (480-101666-3), BLIND DUP (480-101666-4), R1 MW-6 (480-101666-5) and R1 MW-9 (480-101666-6).

Method(s) 8151A: All primary data is reported from the RTX-CLP-I column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Metals

Method(s) 6010C: The method blank for 480-306931 contained Total Barium above the reporting limit (RL). Associated sample(s) R1 MW-3 (480-101666-1), R1 MW-10 (480-101666-2), R1 MW-8 (480-101666-3), BLIND DUP (480-101666-4), R1 MW-6 (480-101666-5), R1 MW-9 (480-101666-6), R1 MW-7 (480-101666-7), R1 MW-7 (480-101666-7[MS]), R1 MW-7 (480-101666-7[MSD]), R1 MW-2 (480-101666-8), R1 MW-1 (480-101666-9), R1 MW-4 (480-101666-10), R1 MW-5 (480-101666-11), (480-101666-C-7-D PDS) and (480-101666-C-7-D SD) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6010C: The recovery of Post Spike, (480-101666-J-7-D PDS), in batch 480-307207 exhibited results below the quality control limits for Dissolved Magnesium. However, the Serial Dilution of this sample was compliant. Therefore, no corrective action was necessary.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Case Narrative

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

### Job ID: 480-101666-1 (Continued)

#### Laboratory: TestAmerica Buffalo (Continued)

##### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

##### Organic Prep

Method(s) 3510C: The following sample: R1 MW-4 (480-101666-10) was decanted prior to preparation.

Method(s) 3510C: The following sample: R1 MW-4 (480-101666-10) was decanted prior to preparation.

Method(s) 3510C: Due to the matrix, the initial volume used for the following sample deviated from the standard procedure: R1 MW-4 (480-101666-10). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 3510C: Due to the matrix, the initial volume used for the following sample deviated from the standard procedure: R1 MW-4 (480-101666-10). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 3510C: The following sample: R1 MW-4 (480-101666-10) was decanted prior to preparation.

Method(s) 3510C: Due to the matrix, the initial volume used for the following sample deviated from the standard procedure: R1 MW-4 (480-101666-10). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 8151A: The following sample: R1 MW-4 (480-101666-10) was decanted prior to preparation.

Method(s) 8151A: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: R1 MW-8 (480-101666-3), R1 MW-6 (480-101666-5), R1 MW-7 (480-101666-7), R1 MW-7 (480-101666-7[MS]), R1 MW-7 (480-101666-7[MSD]) and R1 MW-2 (480-101666-8).

Method(s) 8151A: Samples were extracted using the total volume within the amber bottles. Samples were brought up to 1000 mL for extraction.

R1 MW-8 (480-101666-3), R1 MW-6 (480-101666-5), R1 MW-7 (480-101666-7), R1 MW-7 (480-101666-7[MS]), R1 MW-7 (480-101666-7[MSD]) and R1 MW-2 (480-101666-8)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-3**

**Lab Sample ID: 480-101666-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.73	J	1.0	0.41	ug/L	1		8260C	Total/NA
Chlorobenzene	0.93	J	1.0	0.75	ug/L	1		8260C	Total/NA
Benzaldehyde	0.28	J	4.6	0.25	ug/L	1		8270D	Total/NA
Diethyl phthalate	0.70	J	4.6	0.20	ug/L	1		8270D	Total/NA
delta-BHC	0.011	J	0.049	0.0098	ug/L	1		8081B	Total/NA
PCB-1248	0.18	J	0.47	0.17	ug/L	1		8082A	Total/NA
Aluminum	69.8		0.20		mg/L	1		6010C	Total/NA
Arsenic	0.026		0.015		mg/L	1		6010C	Total/NA
Barium	1.6	B	0.0020		mg/L	1		6010C	Total/NA
Beryllium	0.0029		0.0020		mg/L	1		6010C	Total/NA
Cadmium	0.0039		0.0020		mg/L	1		6010C	Total/NA
Calcium	849		0.50		mg/L	1		6010C	Total/NA
Chromium	0.11		0.0040		mg/L	1		6010C	Total/NA
Cobalt	0.075		0.0040		mg/L	1		6010C	Total/NA
Copper	0.13		0.010		mg/L	1		6010C	Total/NA
Iron	103		0.050		mg/L	1		6010C	Total/NA
Lead	0.22		0.010		mg/L	1		6010C	Total/NA
Magnesium	350		0.20		mg/L	1		6010C	Total/NA
Manganese	4.4		0.0030		mg/L	1		6010C	Total/NA
Nickel	0.16		0.010		mg/L	1		6010C	Total/NA
Potassium	30.6		0.50		mg/L	1		6010C	Total/NA
Sodium	563		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.15		0.0050		mg/L	1		6010C	Total/NA
Zinc	1.1		0.010		mg/L	1		6010C	Total/NA
Aluminum	0.27		0.20		mg/L	1		6010C	Dissolved
Barium	0.060		0.0020		mg/L	1		6010C	Dissolved
Calcium	184		0.50		mg/L	1		6010C	Dissolved
Cobalt	0.0073		0.0040		mg/L	1		6010C	Dissolved
Iron	0.23		0.050		mg/L	1		6010C	Dissolved
Magnesium	77.6		0.20		mg/L	1		6010C	Dissolved
Manganese	0.24		0.0030		mg/L	1		6010C	Dissolved
Nickel	0.011		0.010		mg/L	1		6010C	Dissolved
Potassium	12.8		0.50		mg/L	1		6010C	Dissolved
Sodium	607		1.0		mg/L	1		6010C	Dissolved
Zinc	0.027		0.010		mg/L	1		6010C	Dissolved
Mercury	0.00065		0.00020		mg/L	1		7470A	Total/NA

**Client Sample ID: R1 MW-10**

**Lab Sample ID: 480-101666-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	20		10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	1.9		1.0	0.19	ug/L	1		8260C	Total/NA
Trichloroethene	2.5		1.0	0.46	ug/L	1		8260C	Total/NA
Acetophenone	0.51	J	4.7	0.51	ug/L	1		8270D	Total/NA
Fluoranthene	0.68	J	4.7	0.38	ug/L	1		8270D	Total/NA
Phenanthrene	0.74	J	4.7	0.42	ug/L	1		8270D	Total/NA
Pyrene	0.46	J	4.7	0.32	ug/L	1		8270D	Total/NA
Aluminum	1.3		0.20		mg/L	1		6010C	Total/NA
Barium	0.049	B	0.0020		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Client Sample ID: R1 MW-10 (Continued)

## Lab Sample ID: 480-101666-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	111		0.50		mg/L	1		6010C	Total/NA
Iron	1.3		0.050		mg/L	1		6010C	Total/NA
Magnesium	44.6		0.20		mg/L	1		6010C	Total/NA
Manganese	0.14		0.0030		mg/L	1		6010C	Total/NA
Potassium	9.9		0.50		mg/L	1		6010C	Total/NA
Sodium	89.1		1.0		mg/L	1		6010C	Total/NA
Zinc	0.031		0.010		mg/L	1		6010C	Total/NA

## Client Sample ID: R1 MW-8

## Lab Sample ID: 480-101666-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.3	J	10	3.0	ug/L	1		8260C	Total/NA
Butyl benzyl phthalate	2.3	J	4.7	0.93	ug/L	1		8270D	Total/NA
Aluminum	1.4		0.20		mg/L	1		6010C	Total/NA
Barium	0.36	B	0.0020		mg/L	1		6010C	Total/NA
Calcium	151		0.50		mg/L	1		6010C	Total/NA
Chromium	0.0099		0.0040		mg/L	1		6010C	Total/NA
Cobalt	0.0066		0.0040		mg/L	1		6010C	Total/NA
Copper	0.013		0.010		mg/L	1		6010C	Total/NA
Iron	1.7		0.050		mg/L	1		6010C	Total/NA
Lead	0.019		0.010		mg/L	1		6010C	Total/NA
Magnesium	61.6		0.20		mg/L	1		6010C	Total/NA
Manganese	0.16		0.0030		mg/L	1		6010C	Total/NA
Nickel	0.014		0.010		mg/L	1		6010C	Total/NA
Potassium	37.9		0.50		mg/L	1		6010C	Total/NA
Sodium	248		1.0		mg/L	1		6010C	Total/NA
Zinc	0.19		0.010		mg/L	1		6010C	Total/NA
Barium	0.019		0.0020		mg/L	1		6010C	Dissolved
Calcium	144		0.50		mg/L	1		6010C	Dissolved
Cobalt	0.0055		0.0040		mg/L	1		6010C	Dissolved
Magnesium	59.7		0.20		mg/L	1		6010C	Dissolved
Manganese	0.12		0.0030		mg/L	1		6010C	Dissolved
Potassium	32.7		0.50		mg/L	1		6010C	Dissolved
Sodium	244		1.0		mg/L	1		6010C	Dissolved
Zinc	0.052		0.010		mg/L	1		6010C	Dissolved
Mercury	0.00024		0.00020		mg/L	1		7470A	Total/NA

## Client Sample ID: BLIND DUP

## Lab Sample ID: 480-101666-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.4	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	19		10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	1.9		1.0	0.19	ug/L	1		8260C	Total/NA
Trichloroethene	2.8		1.0	0.46	ug/L	1		8260C	Total/NA
Fluoranthene	0.46	J	5.0	0.40	ug/L	1		8270D	Total/NA
Phenanthrene	0.81	J	5.0	0.44	ug/L	1		8270D	Total/NA
Aluminum	1.3		0.20		mg/L	1		6010C	Total/NA
Barium	0.044	B	0.0020		mg/L	1		6010C	Total/NA
Calcium	113		0.50		mg/L	1		6010C	Total/NA
Iron	1.2		0.050		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

### Client Sample ID: BLIND DUP (Continued)

### Lab Sample ID: 480-101666-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	45.1		0.20		mg/L	1		6010C	Total/NA
Manganese	0.14		0.0030		mg/L	1		6010C	Total/NA
Potassium	9.5		0.50		mg/L	1		6010C	Total/NA
Sodium	89.1		1.0		mg/L	1		6010C	Total/NA
Zinc	0.025		0.010		mg/L	1		6010C	Total/NA

### Client Sample ID: R1 MW-6

### Lab Sample ID: 480-101666-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.8	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.38	J	1.0	0.19	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.9		1.0	0.81	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.3		1.0	0.90	ug/L	1		8260C	Total/NA
Aluminum	3.7		0.20		mg/L	1		6010C	Total/NA
Barium	0.12	B	0.0020		mg/L	1		6010C	Total/NA
Calcium	142		0.50		mg/L	1		6010C	Total/NA
Chromium	0.0059		0.0040		mg/L	1		6010C	Total/NA
Iron	3.8		0.050		mg/L	1		6010C	Total/NA
Lead	0.010		0.010		mg/L	1		6010C	Total/NA
Magnesium	71.7		0.20		mg/L	1		6010C	Total/NA
Manganese	0.12		0.0030		mg/L	1		6010C	Total/NA
Potassium	9.8		0.50		mg/L	1		6010C	Total/NA
Sodium	300		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.0055		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.070		0.010		mg/L	1		6010C	Total/NA

### Client Sample ID: R1 MW-9

### Lab Sample ID: 480-101666-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16	J	20	6.0	ug/L	2		8260C	Total/NA
Carbon disulfide	1.4	J	2.0	0.38	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	1.8	J	2.0	1.6	ug/L	2		8260C	Total/NA
Styrene	3.3		2.0	1.5	ug/L	2		8260C	Total/NA
Tetrachloroethene	2500	E	2.0	0.72	ug/L	2		8260C	Total/NA
Trichloroethene	7.0		2.0	0.92	ug/L	2		8260C	Total/NA
Tetrachloroethene - DL	4200		80	29	ug/L	80		8260C	Total/NA
Acetophenone	0.50	J	4.7	0.50	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.48	J	4.7	0.44	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.71	J	4.7	0.32	ug/L	1		8270D	Total/NA
Benzo[g,h,i]perylene	0.50	J	4.7	0.33	ug/L	1		8270D	Total/NA
Chrysene	0.56	J	4.7	0.31	ug/L	1		8270D	Total/NA
Fluoranthene	1.1	J	4.7	0.37	ug/L	1		8270D	Total/NA
Pyrene	0.84	J	4.7	0.32	ug/L	1		8270D	Total/NA
Aluminum	0.43		0.20		mg/L	1		6010C	Total/NA
Barium	0.11	B	0.0020		mg/L	1		6010C	Total/NA
Calcium	104		0.50		mg/L	1		6010C	Total/NA
Iron	0.41		0.050		mg/L	1		6010C	Total/NA
Magnesium	50.3		0.20		mg/L	1		6010C	Total/NA
Manganese	0.12		0.0030		mg/L	1		6010C	Total/NA
Potassium	4.0		0.50		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

### Client Sample ID: R1 MW-9 (Continued)

### Lab Sample ID: 480-101666-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	84.5		1.0		mg/L	1		6010C	Total/NA
Zinc	0.076		0.010		mg/L	1		6010C	Total/NA

### Client Sample ID: R1 MW-7

### Lab Sample ID: 480-101666-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14		10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.42	J	1.0	0.19	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	36	F1	1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.54	J	1.0	0.36	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	100	F1	1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	89	F1	1.0	0.46	ug/L	1		8260C	Total/NA
Phenanthrene	0.75	J	4.8	0.42	ug/L	1		8270D	Total/NA
Aluminum	1.8		0.20		mg/L	1		6010C	Total/NA
Barium	0.18	F2 F1 B	0.0020		mg/L	1		6010C	Total/NA
Calcium	224		0.50		mg/L	1		6010C	Total/NA
Iron	2.1		0.050		mg/L	1		6010C	Total/NA
Magnesium	103		0.20		mg/L	1		6010C	Total/NA
Manganese	0.14		0.0030		mg/L	1		6010C	Total/NA
Potassium	8.7		0.50		mg/L	1		6010C	Total/NA
Sodium	78.6		1.0		mg/L	1		6010C	Total/NA
Zinc	0.10	F2 F1	0.010		mg/L	1		6010C	Total/NA
Barium	0.015		0.0020		mg/L	1		6010C	Dissolved
Calcium	215		0.50		mg/L	1		6010C	Dissolved
Magnesium	99.9		0.20		mg/L	1		6010C	Dissolved
Manganese	0.087		0.0030		mg/L	1		6010C	Dissolved
Potassium	8.3		0.50		mg/L	1		6010C	Dissolved
Sodium	77.9		1.0		mg/L	1		6010C	Dissolved
Zinc	0.094		0.010		mg/L	1		6010C	Dissolved

### Client Sample ID: R1 MW-2

### Lab Sample ID: 480-101666-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	44		20	6.0	ug/L	2		8260C	Total/NA
Carbon disulfide	0.96	J	2.0	0.38	ug/L	2		8260C	Total/NA
Trichloroethene	11		2.0	0.92	ug/L	2		8260C	Total/NA
Acetophenone	0.95	J	5.8	0.63	ug/L	1		8270D	Total/NA
4,4'-DDD	0.088	J	0.24	0.044	ug/L	5		8081B	Total/NA
Aluminum	3.2		0.20		mg/L	1		6010C	Total/NA
Barium	0.055	B	0.0020		mg/L	1		6010C	Total/NA
Calcium	219		0.50		mg/L	1		6010C	Total/NA
Iron	3.0		0.050		mg/L	1		6010C	Total/NA
Magnesium	122		0.20		mg/L	1		6010C	Total/NA
Manganese	0.20		0.0030		mg/L	1		6010C	Total/NA
Nickel	0.018		0.010		mg/L	1		6010C	Total/NA
Potassium	67.2		0.50		mg/L	1		6010C	Total/NA
Sodium	882		1.0		mg/L	1		6010C	Total/NA
Zinc	0.041		0.010		mg/L	1		6010C	Total/NA
Barium	0.017		0.0020		mg/L	1		6010C	Dissolved
Calcium	209		0.50		mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Client Sample ID: R1 MW-2 (Continued)

## Lab Sample ID: 480-101666-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	120		0.20		mg/L	1		6010C	Dissolved
Manganese	0.16		0.0030		mg/L	1		6010C	Dissolved
Nickel	0.015		0.010		mg/L	1		6010C	Dissolved
Potassium	63.0		0.50		mg/L	1		6010C	Dissolved
Sodium	884		1.0		mg/L	1		6010C	Dissolved
Zinc	0.015		0.010		mg/L	1		6010C	Dissolved

## Client Sample ID: R1 MW-1

## Lab Sample ID: 480-101666-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylcyclohexane	0.64	J	1.0	0.16	ug/L	1		8260C	Total/NA
Aluminum	24.4		0.20		mg/L	1		6010C	Total/NA
Barium	0.34	B	0.0020		mg/L	1		6010C	Total/NA
Cadmium	0.0022		0.0020		mg/L	1		6010C	Total/NA
Calcium	610		0.50		mg/L	1		6010C	Total/NA
Chromium	0.040		0.0040		mg/L	1		6010C	Total/NA
Cobalt	0.020		0.0040		mg/L	1		6010C	Total/NA
Copper	0.042		0.010		mg/L	1		6010C	Total/NA
Iron	40.8		0.050		mg/L	1		6010C	Total/NA
Lead	0.081		0.010		mg/L	1		6010C	Total/NA
Magnesium	231		0.20		mg/L	1		6010C	Total/NA
Manganese	1.8		0.0030		mg/L	1		6010C	Total/NA
Nickel	0.044		0.010		mg/L	1		6010C	Total/NA
Potassium	28.2		0.50		mg/L	1		6010C	Total/NA
Sodium	2260		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.056		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.37		0.010		mg/L	1		6010C	Total/NA

## Client Sample ID: R1 MW-4

## Lab Sample ID: 480-101666-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.60	J	1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	3.2	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	130	E	1.0	0.81	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	180	E	1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	82		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	2.1		1.0	0.90	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	140		5.0	4.1	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether - DL	2.0	J	5.0	0.80	ug/L	5		8260C	Total/NA
trans-1,2-Dichloroethene - DL	200		5.0	4.5	ug/L	5		8260C	Total/NA
Trichloroethene - DL	83		5.0	2.3	ug/L	5		8260C	Total/NA
Aluminum	122		0.20		mg/L	1		6010C	Total/NA
Arsenic	0.048		0.015		mg/L	1		6010C	Total/NA
Barium	0.85	B	0.0020		mg/L	1		6010C	Total/NA
Beryllium	0.0051		0.0020		mg/L	1		6010C	Total/NA
Cadmium	0.0038		0.0020		mg/L	1		6010C	Total/NA
Calcium	1830		1.0		mg/L	2		6010C	Total/NA
Chromium	0.17		0.0040		mg/L	1		6010C	Total/NA
Cobalt	0.12		0.0040		mg/L	1		6010C	Total/NA
Copper	0.21		0.010		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Client Sample ID: R1 MW-4 (Continued)

## Lab Sample ID: 480-101666-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	185		0.050		mg/L	1		6010C	Total/NA
Lead	0.39		0.010		mg/L	1		6010C	Total/NA
Magnesium	692		0.40		mg/L	2		6010C	Total/NA
Manganese	7.4		0.0030		mg/L	1		6010C	Total/NA
Nickel	0.26		0.010		mg/L	1		6010C	Total/NA
Potassium	44.6		0.50		mg/L	1		6010C	Total/NA
Sodium	362		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.24		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.82		0.010		mg/L	1		6010C	Total/NA
Aluminum	0.63		0.20		mg/L	1		6010C	Dissolved
Barium	0.027		0.0020		mg/L	1		6010C	Dissolved
Calcium	230		0.50		mg/L	1		6010C	Dissolved
Iron	0.53		0.050		mg/L	1		6010C	Dissolved
Magnesium	123		0.20		mg/L	1		6010C	Dissolved
Manganese	0.11		0.0030		mg/L	1		6010C	Dissolved
Potassium	17.4		0.50		mg/L	1		6010C	Dissolved
Sodium	437		1.0		mg/L	1		6010C	Dissolved
Mercury	0.00047		0.00020		mg/L	1		7470A	Total/NA
Cyanide, Total	0.036		0.010		mg/L	1		9012B	Total/NA

## Client Sample ID: R1 MW-5

## Lab Sample ID: 480-101666-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	15.0		0.20		mg/L	1		6010C	Total/NA
Barium	0.18	B	0.0020		mg/L	1		6010C	Total/NA
Calcium	164		0.50		mg/L	1		6010C	Total/NA
Chromium	0.018		0.0040		mg/L	1		6010C	Total/NA
Cobalt	0.0071		0.0040		mg/L	1		6010C	Total/NA
Copper	0.016		0.010		mg/L	1		6010C	Total/NA
Iron	17.8		0.050		mg/L	1		6010C	Total/NA
Lead	0.032		0.010		mg/L	1		6010C	Total/NA
Magnesium	66.6		0.20		mg/L	1		6010C	Total/NA
Manganese	0.54		0.0030		mg/L	1		6010C	Total/NA
Nickel	0.017		0.010		mg/L	1		6010C	Total/NA
Potassium	8.0		0.50		mg/L	1		6010C	Total/NA
Sodium	566		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.026		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.090		0.010		mg/L	1		6010C	Total/NA
Barium	0.032		0.0020		mg/L	1		6010C	Dissolved
Calcium	70.0		0.50		mg/L	1		6010C	Dissolved
Magnesium	27.4		0.20		mg/L	1		6010C	Dissolved
Manganese	0.027		0.0030		mg/L	1		6010C	Dissolved
Potassium	2.6		0.50		mg/L	1		6010C	Dissolved
Sodium	569		1.0		mg/L	1		6010C	Dissolved

## Client Sample ID: TRIP BLANK

## Lab Sample ID: 480-101666-13

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-3**

**Lab Sample ID: 480-101666-1**

**Date Collected: 06/14/16 13:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	1.0	0.82	ug/L			06/16/16 00:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/16/16 00:44	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/16/16 00:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/16/16 00:44	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/16/16 00:44	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/16/16 00:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/16/16 00:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/16/16 00:44	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/16/16 00:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/16/16 00:44	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/16/16 00:44	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/16/16 00:44	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/16/16 00:44	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/16/16 00:44	1
2-Hexanone	ND		5.0	1.2	ug/L			06/16/16 00:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/16/16 00:44	1
<b>Acetone</b>	<b>3.0</b>	<b>J</b>	10	3.0	ug/L			06/16/16 00:44	1
<b>Benzene</b>	<b>0.73</b>	<b>J</b>	1.0	0.41	ug/L			06/16/16 00:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/16/16 00:44	1
Bromoform	ND		1.0	0.26	ug/L			06/16/16 00:44	1
Bromomethane	ND		1.0	0.69	ug/L			06/16/16 00:44	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/16/16 00:44	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/16/16 00:44	1
<b>Chlorobenzene</b>	<b>0.93</b>	<b>J</b>	1.0	0.75	ug/L			06/16/16 00:44	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/16/16 00:44	1
Chloroethane	ND		1.0	0.32	ug/L			06/16/16 00:44	1
Chloroform	ND		1.0	0.34	ug/L			06/16/16 00:44	1
Chloromethane	ND		1.0	0.35	ug/L			06/16/16 00:44	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/16/16 00:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/16/16 00:44	1
Cyclohexane	ND		1.0	0.18	ug/L			06/16/16 00:44	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/16/16 00:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/16/16 00:44	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/16/16 00:44	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/16/16 00:44	1
Methyl acetate	ND		2.5	1.3	ug/L			06/16/16 00:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/16/16 00:44	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/16/16 00:44	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/16/16 00:44	1
Styrene	ND		1.0	0.73	ug/L			06/16/16 00:44	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/16/16 00:44	1
Toluene	ND		1.0	0.51	ug/L			06/16/16 00:44	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/16/16 00:44	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/16/16 00:44	1
Trichloroethene	ND		1.0	0.46	ug/L			06/16/16 00:44	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/16/16 00:44	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/16/16 00:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/16/16 00:44	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-3**

**Lab Sample ID: 480-101666-1**

**Date Collected: 06/14/16 13:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		71 - 126		06/16/16 00:44	1
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		06/16/16 00:44	1
4-Bromofluorobenzene (Surr)	110		73 - 120		06/16/16 00:44	1
Dibromofluoromethane (Surr)	95		60 - 140		06/16/16 00:44	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4.6	0.61	ug/L		06/16/16 07:48	06/16/16 18:22	1
bis (2-chloroisopropyl) ether	ND		4.6	0.48	ug/L		06/16/16 07:48	06/16/16 18:22	1
2,4,5-Trichlorophenol	ND		4.6	0.45	ug/L		06/16/16 07:48	06/16/16 18:22	1
2,4,6-Trichlorophenol	ND		4.6	0.57	ug/L		06/16/16 07:48	06/16/16 18:22	1
2,4-Dichlorophenol	ND		4.6	0.47	ug/L		06/16/16 07:48	06/16/16 18:22	1
2,4-Dimethylphenol	ND		4.6	0.46	ug/L		06/16/16 07:48	06/16/16 18:22	1
2,4-Dinitrophenol	ND		9.3	2.1	ug/L		06/16/16 07:48	06/16/16 18:22	1
2,4-Dinitrotoluene	ND		4.6	0.42	ug/L		06/16/16 07:48	06/16/16 18:22	1
2,6-Dinitrotoluene	ND		4.6	0.37	ug/L		06/16/16 07:48	06/16/16 18:22	1
2-Chloronaphthalene	ND		4.6	0.43	ug/L		06/16/16 07:48	06/16/16 18:22	1
2-Chlorophenol	ND		4.6	0.49	ug/L		06/16/16 07:48	06/16/16 18:22	1
2-Methylphenol	ND		4.6	0.37	ug/L		06/16/16 07:48	06/16/16 18:22	1
2-Methylnaphthalene	ND		4.6	0.56	ug/L		06/16/16 07:48	06/16/16 18:22	1
2-Nitroaniline	ND		9.3	0.39	ug/L		06/16/16 07:48	06/16/16 18:22	1
2-Nitrophenol	ND		4.6	0.45	ug/L		06/16/16 07:48	06/16/16 18:22	1
3,3'-Dichlorobenzidine	ND		4.6	0.37	ug/L		06/16/16 07:48	06/16/16 18:22	1
3-Nitroaniline	ND		9.3	0.45	ug/L		06/16/16 07:48	06/16/16 18:22	1
4,6-Dinitro-2-methylphenol	ND		9.3	2.0	ug/L		06/16/16 07:48	06/16/16 18:22	1
4-Bromophenyl phenyl ether	ND		4.6	0.42	ug/L		06/16/16 07:48	06/16/16 18:22	1
4-Chloro-3-methylphenol	ND		4.6	0.42	ug/L		06/16/16 07:48	06/16/16 18:22	1
4-Chloroaniline	ND		4.6	0.55	ug/L		06/16/16 07:48	06/16/16 18:22	1
4-Chlorophenyl phenyl ether	ND		4.6	0.33	ug/L		06/16/16 07:48	06/16/16 18:22	1
4-Methylphenol	ND		9.3	0.33	ug/L		06/16/16 07:48	06/16/16 18:22	1
4-Nitroaniline	ND		9.3	0.23	ug/L		06/16/16 07:48	06/16/16 18:22	1
4-Nitrophenol	ND		9.3	1.4	ug/L		06/16/16 07:48	06/16/16 18:22	1
Acenaphthene	ND		4.6	0.38	ug/L		06/16/16 07:48	06/16/16 18:22	1
Acenaphthylene	ND		4.6	0.35	ug/L		06/16/16 07:48	06/16/16 18:22	1
Acetophenone	ND		4.6	0.50	ug/L		06/16/16 07:48	06/16/16 18:22	1
Anthracene	ND		4.6	0.26	ug/L		06/16/16 07:48	06/16/16 18:22	1
Atrazine	ND		4.6	0.43	ug/L		06/16/16 07:48	06/16/16 18:22	1
<b>Benzaldehyde</b>	<b>0.28</b>	<b>J</b>	4.6	0.25	ug/L		06/16/16 07:48	06/16/16 18:22	1
Benzo[a]anthracene	ND		4.6	0.33	ug/L		06/16/16 07:48	06/16/16 18:22	1
Benzo[a]pyrene	ND		4.6	0.44	ug/L		06/16/16 07:48	06/16/16 18:22	1
Benzo[b]fluoranthene	ND		4.6	0.32	ug/L		06/16/16 07:48	06/16/16 18:22	1
Benzo[g,h,i]perylene	ND		4.6	0.33	ug/L		06/16/16 07:48	06/16/16 18:22	1
Benzo[k]fluoranthene	ND		4.6	0.68	ug/L		06/16/16 07:48	06/16/16 18:22	1
Bis(2-chloroethoxy)methane	ND		4.6	0.33	ug/L		06/16/16 07:48	06/16/16 18:22	1
Bis(2-chloroethyl)ether	ND		4.6	0.37	ug/L		06/16/16 07:48	06/16/16 18:22	1
Bis(2-ethylhexyl) phthalate	ND		4.6	2.0	ug/L		06/16/16 07:48	06/16/16 18:22	1
Butyl benzyl phthalate	ND		4.6	0.93	ug/L		06/16/16 07:48	06/16/16 18:22	1
Caprolactam	ND		4.6	2.0	ug/L		06/16/16 07:48	06/16/16 18:22	1
Carbazole	ND		4.6	0.28	ug/L		06/16/16 07:48	06/16/16 18:22	1
Chrysene	ND		4.6	0.31	ug/L		06/16/16 07:48	06/16/16 18:22	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-3**

**Lab Sample ID: 480-101666-1**

**Date Collected: 06/14/16 13:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		4.6	0.39	ug/L		06/16/16 07:48	06/16/16 18:22	1
Di-n-butyl phthalate	ND		4.6	0.29	ug/L		06/16/16 07:48	06/16/16 18:22	1
Di-n-octyl phthalate	ND		4.6	0.44	ug/L		06/16/16 07:48	06/16/16 18:22	1
Dibenzofuran	ND		9.3	0.47	ug/L		06/16/16 07:48	06/16/16 18:22	1
<b>Diethyl phthalate</b>	<b>0.70</b>	<b>J</b>	4.6	0.20	ug/L		06/16/16 07:48	06/16/16 18:22	1
Dimethyl phthalate	ND		4.6	0.33	ug/L		06/16/16 07:48	06/16/16 18:22	1
Fluoranthene	ND		4.6	0.37	ug/L		06/16/16 07:48	06/16/16 18:22	1
Fluorene	ND		4.6	0.33	ug/L		06/16/16 07:48	06/16/16 18:22	1
Hexachlorobenzene	ND		4.6	0.47	ug/L		06/16/16 07:48	06/16/16 18:22	1
Hexachlorobutadiene	ND		4.6	0.63	ug/L		06/16/16 07:48	06/16/16 18:22	1
Hexachlorocyclopentadiene	ND		4.6	0.55	ug/L		06/16/16 07:48	06/16/16 18:22	1
Hexachloroethane	ND		4.6	0.55	ug/L		06/16/16 07:48	06/16/16 18:22	1
Indeno[1,2,3-cd]pyrene	ND		4.6	0.44	ug/L		06/16/16 07:48	06/16/16 18:22	1
Isophorone	ND		4.6	0.40	ug/L		06/16/16 07:48	06/16/16 18:22	1
N-Nitrosodi-n-propylamine	ND		4.6	0.50	ug/L		06/16/16 07:48	06/16/16 18:22	1
N-Nitrosodiphenylamine	ND		4.6	0.47	ug/L		06/16/16 07:48	06/16/16 18:22	1
Naphthalene	ND		4.6	0.71	ug/L		06/16/16 07:48	06/16/16 18:22	1
Nitrobenzene	ND		4.6	0.27	ug/L		06/16/16 07:48	06/16/16 18:22	1
Pentachlorophenol	ND		9.3	2.0	ug/L		06/16/16 07:48	06/16/16 18:22	1
Phenanthrene	ND		4.6	0.41	ug/L		06/16/16 07:48	06/16/16 18:22	1
Phenol	ND		4.6	0.36	ug/L		06/16/16 07:48	06/16/16 18:22	1
Pyrene	ND		4.6	0.32	ug/L		06/16/16 07:48	06/16/16 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	80		46 - 120	06/16/16 07:48	06/16/16 18:22	1
Phenol-d5 (Surr)	43		16 - 120	06/16/16 07:48	06/16/16 18:22	1
p-Terphenyl-d14 (Surr)	89		67 - 150	06/16/16 07:48	06/16/16 18:22	1
2,4,6-Tribromophenol (Surr)	85		52 - 132	06/16/16 07:48	06/16/16 18:22	1
2-Fluorobiphenyl	78		48 - 120	06/16/16 07:48	06/16/16 18:22	1
2-Fluorophenol (Surr)	63		20 - 120	06/16/16 07:48	06/16/16 18:22	1

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.049	0.0090	ug/L		06/16/16 08:00	06/17/16 12:37	1
4,4'-DDE	ND		0.049	0.011	ug/L		06/16/16 08:00	06/17/16 12:37	1
4,4'-DDT	ND		0.049	0.011	ug/L		06/16/16 08:00	06/17/16 12:37	1
Aldrin	ND		0.049	0.0079	ug/L		06/16/16 08:00	06/17/16 12:37	1
alpha-BHC	ND		0.049	0.0075	ug/L		06/16/16 08:00	06/17/16 12:37	1
alpha-Chlordane	ND		0.049	0.014	ug/L		06/16/16 08:00	06/17/16 12:37	1
beta-BHC	ND		0.049	0.024	ug/L		06/16/16 08:00	06/17/16 12:37	1
<b>delta-BHC</b>	<b>0.011</b>	<b>J</b>	0.049	0.0098	ug/L		06/16/16 08:00	06/17/16 12:37	1
Dieldrin	ND		0.049	0.0096	ug/L		06/16/16 08:00	06/17/16 12:37	1
Endosulfan I	ND		0.049	0.011	ug/L		06/16/16 08:00	06/17/16 12:37	1
Endosulfan II	ND		0.049	0.012	ug/L		06/16/16 08:00	06/17/16 12:37	1
Endosulfan sulfate	ND		0.049	0.015	ug/L		06/16/16 08:00	06/17/16 12:37	1
Endrin	ND		0.049	0.013	ug/L		06/16/16 08:00	06/17/16 12:37	1
Endrin aldehyde	ND		0.049	0.016	ug/L		06/16/16 08:00	06/17/16 12:37	1
Endrin ketone	ND		0.049	0.012	ug/L		06/16/16 08:00	06/17/16 12:37	1
gamma-BHC (Lindane)	ND		0.049	0.0078	ug/L		06/16/16 08:00	06/17/16 12:37	1
gamma-Chlordane	ND		0.049	0.011	ug/L		06/16/16 08:00	06/17/16 12:37	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-3**

**Lab Sample ID: 480-101666-1**

**Date Collected: 06/14/16 13:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.049	0.0083	ug/L		06/16/16 08:00	06/17/16 12:37	1
Heptachlor epoxide	ND		0.049	0.0072	ug/L		06/16/16 08:00	06/17/16 12:37	1
Methoxychlor	ND		0.049	0.014	ug/L		06/16/16 08:00	06/17/16 12:37	1
Toxaphene	ND		0.49	0.12	ug/L		06/16/16 08:00	06/17/16 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	24		20 - 120	06/16/16 08:00	06/17/16 12:37	1
DCB Decachlorobiphenyl	33		20 - 120	06/16/16 08:00	06/17/16 12:37	1
Tetrachloro-m-xylene	78		36 - 120	06/16/16 08:00	06/17/16 12:37	1
Tetrachloro-m-xylene	74		36 - 120	06/16/16 08:00	06/17/16 12:37	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.47	0.17	ug/L		06/16/16 07:53	06/17/16 00:25	1
PCB-1221	ND		0.47	0.17	ug/L		06/16/16 07:53	06/17/16 00:25	1
PCB-1232	ND		0.47	0.17	ug/L		06/16/16 07:53	06/17/16 00:25	1
PCB-1242	ND		0.47	0.17	ug/L		06/16/16 07:53	06/17/16 00:25	1
<b>PCB-1248</b>	<b>0.18</b>	<b>J</b>	0.47	0.17	ug/L		06/16/16 07:53	06/17/16 00:25	1
PCB-1254	ND		0.47	0.24	ug/L		06/16/16 07:53	06/17/16 00:25	1
PCB-1260	ND		0.47	0.24	ug/L		06/16/16 07:53	06/17/16 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		24 - 137	06/16/16 07:53	06/17/16 00:25	1
Tetrachloro-m-xylene	89		24 - 137	06/16/16 07:53	06/17/16 00:25	1
DCB Decachlorobiphenyl	42		19 - 125	06/16/16 07:53	06/17/16 00:25	1
DCB Decachlorobiphenyl	45		19 - 125	06/16/16 07:53	06/17/16 00:25	1

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.068	ug/L		06/15/16 15:50	06/16/16 23:24	1
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		06/15/16 15:50	06/16/16 23:24	1
2,4-D	ND		0.50	0.17	ug/L		06/15/16 15:50	06/16/16 23:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	88		35 - 143	06/15/16 15:50	06/16/16 23:24	1
2,4-Dichlorophenylacetic acid	99		35 - 143	06/15/16 15:50	06/16/16 23:24	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>69.8</b>		0.20		mg/L		06/16/16 07:34	06/16/16 18:20	1
Antimony	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:20	1
<b>Arsenic</b>	<b>0.026</b>		0.015		mg/L		06/16/16 07:34	06/16/16 18:20	1
<b>Barium</b>	<b>1.6</b>	<b>B</b>	0.0020		mg/L		06/16/16 07:34	06/16/16 18:20	1
<b>Beryllium</b>	<b>0.0029</b>		0.0020		mg/L		06/16/16 07:34	06/16/16 18:20	1
<b>Cadmium</b>	<b>0.0039</b>		0.0020		mg/L		06/16/16 07:34	06/16/16 18:20	1
<b>Calcium</b>	<b>849</b>		0.50		mg/L		06/16/16 07:34	06/16/16 18:20	1
<b>Chromium</b>	<b>0.11</b>		0.0040		mg/L		06/16/16 07:34	06/16/16 18:20	1
<b>Cobalt</b>	<b>0.075</b>		0.0040		mg/L		06/16/16 07:34	06/16/16 18:20	1
<b>Copper</b>	<b>0.13</b>		0.010		mg/L		06/16/16 07:34	06/16/16 18:20	1
<b>Iron</b>	<b>103</b>		0.050		mg/L		06/16/16 07:34	06/16/16 18:20	1
<b>Lead</b>	<b>0.22</b>		0.010		mg/L		06/16/16 07:34	06/16/16 18:20	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-3**

**Lab Sample ID: 480-101666-1**

**Date Collected: 06/14/16 13:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	350		0.20		mg/L		06/16/16 07:34	06/16/16 18:20	1
Manganese	4.4		0.0030		mg/L		06/16/16 07:34	06/16/16 18:20	1
Nickel	0.16		0.010		mg/L		06/16/16 07:34	06/16/16 18:20	1
Potassium	30.6		0.50		mg/L		06/16/16 07:34	06/16/16 18:20	1
Selenium	ND		0.025		mg/L		06/16/16 07:34	06/16/16 18:20	1
Silver	ND		0.0060		mg/L		06/16/16 07:34	06/16/16 18:20	1
Sodium	563		1.0		mg/L		06/16/16 07:34	06/16/16 18:20	1
Thallium	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:20	1
Vanadium	0.15		0.0050		mg/L		06/16/16 07:34	06/16/16 18:20	1
Zinc	1.1		0.010		mg/L		06/16/16 07:34	06/16/16 18:20	1

**Method: 6010C - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.27		0.20		mg/L		06/17/16 11:15	06/17/16 22:44	1
Antimony	ND		0.020		mg/L		06/17/16 11:15	06/17/16 22:44	1
Arsenic	ND		0.015		mg/L		06/17/16 11:15	06/17/16 22:44	1
Barium	0.060		0.0020		mg/L		06/17/16 11:15	06/17/16 22:44	1
Beryllium	ND		0.0020		mg/L		06/17/16 11:15	06/17/16 22:44	1
Cadmium	ND		0.0020		mg/L		06/17/16 11:15	06/17/16 22:44	1
Calcium	184		0.50		mg/L		06/17/16 11:15	06/17/16 22:44	1
Chromium	ND		0.0040		mg/L		06/17/16 11:15	06/17/16 22:44	1
Cobalt	0.0073		0.0040		mg/L		06/17/16 11:15	06/17/16 22:44	1
Copper	ND		0.010		mg/L		06/17/16 11:15	06/17/16 22:44	1
Iron	0.23		0.050		mg/L		06/17/16 11:15	06/17/16 22:44	1
Lead	ND		0.010		mg/L		06/17/16 11:15	06/17/16 22:44	1
Magnesium	77.6		0.20		mg/L		06/17/16 11:15	06/17/16 22:44	1
Manganese	0.24		0.0030		mg/L		06/17/16 11:15	06/17/16 22:44	1
Nickel	0.011		0.010		mg/L		06/17/16 11:15	06/17/16 22:44	1
Potassium	12.8		0.50		mg/L		06/17/16 11:15	06/17/16 22:44	1
Selenium	ND		0.025		mg/L		06/17/16 11:15	06/17/16 22:44	1
Silver	ND		0.0060		mg/L		06/17/16 11:15	06/17/16 22:44	1
Sodium	607		1.0		mg/L		06/17/16 11:15	06/17/16 22:44	1
Thallium	ND		0.020		mg/L		06/17/16 11:15	06/17/16 22:44	1
Vanadium	ND		0.0050		mg/L		06/17/16 11:15	06/17/16 22:44	1
Zinc	0.027		0.010		mg/L		06/17/16 11:15	06/17/16 22:44	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00065		0.00020		mg/L		06/16/16 06:55	06/16/16 11:15	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/17/16 11:30	06/17/16 14:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		06/16/16 10:12	06/17/16 09:09	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-10**

**Lab Sample ID: 480-101666-2**

**Date Collected: 06/14/16 11:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	1.0	0.82	ug/L			06/16/16 01:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/16/16 01:11	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/16/16 01:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/16/16 01:11	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/16/16 01:11	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/16/16 01:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/16/16 01:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/16/16 01:11	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/16/16 01:11	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/16/16 01:11	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/16/16 01:11	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/16/16 01:11	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/16/16 01:11	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/16/16 01:11	1
2-Hexanone	ND		5.0	1.2	ug/L			06/16/16 01:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/16/16 01:11	1
<b>Acetone</b>	<b>20</b>		10	3.0	ug/L			06/16/16 01:11	1
Benzene	ND		1.0	0.41	ug/L			06/16/16 01:11	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/16/16 01:11	1
Bromoform	ND		1.0	0.26	ug/L			06/16/16 01:11	1
Bromomethane	ND		1.0	0.69	ug/L			06/16/16 01:11	1
<b>Carbon disulfide</b>	<b>1.9</b>		1.0	0.19	ug/L			06/16/16 01:11	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/16/16 01:11	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/16/16 01:11	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/16/16 01:11	1
Chloroethane	ND		1.0	0.32	ug/L			06/16/16 01:11	1
Chloroform	ND		1.0	0.34	ug/L			06/16/16 01:11	1
Chloromethane	ND		1.0	0.35	ug/L			06/16/16 01:11	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/16/16 01:11	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/16/16 01:11	1
Cyclohexane	ND		1.0	0.18	ug/L			06/16/16 01:11	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/16/16 01:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/16/16 01:11	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/16/16 01:11	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/16/16 01:11	1
Methyl acetate	ND		2.5	1.3	ug/L			06/16/16 01:11	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/16/16 01:11	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/16/16 01:11	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/16/16 01:11	1
Styrene	ND		1.0	0.73	ug/L			06/16/16 01:11	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/16/16 01:11	1
Toluene	ND		1.0	0.51	ug/L			06/16/16 01:11	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/16/16 01:11	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/16/16 01:11	1
<b>Trichloroethene</b>	<b>2.5</b>		1.0	0.46	ug/L			06/16/16 01:11	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/16/16 01:11	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/16/16 01:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/16/16 01:11	1

TestAmerica Buffalo



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-10**

**Lab Sample ID: 480-101666-2**

**Date Collected: 06/14/16 11:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		71 - 126		06/16/16 01:11	1
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		06/16/16 01:11	1
4-Bromofluorobenzene (Surr)	113		73 - 120		06/16/16 01:11	1
Dibromofluoromethane (Surr)	92		60 - 140		06/16/16 01:11	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4.7	0.62	ug/L		06/16/16 07:48	06/17/16 15:16	1
bis (2-chloroisopropyl) ether	ND		4.7	0.49	ug/L		06/16/16 07:48	06/17/16 15:16	1
2,4,5-Trichlorophenol	ND		4.7	0.46	ug/L		06/16/16 07:48	06/17/16 15:16	1
2,4,6-Trichlorophenol	ND		4.7	0.58	ug/L		06/16/16 07:48	06/17/16 15:16	1
2,4-Dichlorophenol	ND		4.7	0.48	ug/L		06/16/16 07:48	06/17/16 15:16	1
2,4-Dimethylphenol	ND		4.7	0.47	ug/L		06/16/16 07:48	06/17/16 15:16	1
2,4-Dinitrophenol	ND		9.5	2.1	ug/L		06/16/16 07:48	06/17/16 15:16	1
2,4-Dinitrotoluene	ND		4.7	0.42	ug/L		06/16/16 07:48	06/17/16 15:16	1
2,6-Dinitrotoluene	ND		4.7	0.38	ug/L		06/16/16 07:48	06/17/16 15:16	1
2-Chloronaphthalene	ND		4.7	0.44	ug/L		06/16/16 07:48	06/17/16 15:16	1
2-Chlorophenol	ND		4.7	0.50	ug/L		06/16/16 07:48	06/17/16 15:16	1
2-Methylphenol	ND		4.7	0.38	ug/L		06/16/16 07:48	06/17/16 15:16	1
2-Methylnaphthalene	ND		4.7	0.57	ug/L		06/16/16 07:48	06/17/16 15:16	1
2-Nitroaniline	ND		9.5	0.40	ug/L		06/16/16 07:48	06/17/16 15:16	1
2-Nitrophenol	ND		4.7	0.46	ug/L		06/16/16 07:48	06/17/16 15:16	1
3,3'-Dichlorobenzidine	ND		4.7	0.38	ug/L		06/16/16 07:48	06/17/16 15:16	1
3-Nitroaniline	ND		9.5	0.46	ug/L		06/16/16 07:48	06/17/16 15:16	1
4,6-Dinitro-2-methylphenol	ND		9.5	2.1	ug/L		06/16/16 07:48	06/17/16 15:16	1
4-Bromophenyl phenyl ether	ND		4.7	0.43	ug/L		06/16/16 07:48	06/17/16 15:16	1
4-Chloro-3-methylphenol	ND		4.7	0.43	ug/L		06/16/16 07:48	06/17/16 15:16	1
4-Chloroaniline	ND		4.7	0.56	ug/L		06/16/16 07:48	06/17/16 15:16	1
4-Chlorophenyl phenyl ether	ND		4.7	0.33	ug/L		06/16/16 07:48	06/17/16 15:16	1
4-Methylphenol	ND		9.5	0.34	ug/L		06/16/16 07:48	06/17/16 15:16	1
4-Nitroaniline	ND		9.5	0.24	ug/L		06/16/16 07:48	06/17/16 15:16	1
4-Nitrophenol	ND		9.5	1.4	ug/L		06/16/16 07:48	06/17/16 15:16	1
Acenaphthene	ND		4.7	0.39	ug/L		06/16/16 07:48	06/17/16 15:16	1
Acenaphthylene	ND		4.7	0.36	ug/L		06/16/16 07:48	06/17/16 15:16	1
<b>Acetophenone</b>	<b>0.51</b>	<b>J</b>	4.7	0.51	ug/L		06/16/16 07:48	06/17/16 15:16	1
Anthracene	ND		4.7	0.27	ug/L		06/16/16 07:48	06/17/16 15:16	1
Atrazine	ND		4.7	0.44	ug/L		06/16/16 07:48	06/17/16 15:16	1
Benzaldehyde	ND		4.7	0.25	ug/L		06/16/16 07:48	06/17/16 15:16	1
Benzo[a]anthracene	ND		4.7	0.34	ug/L		06/16/16 07:48	06/17/16 15:16	1
Benzo[a]pyrene	ND		4.7	0.45	ug/L		06/16/16 07:48	06/17/16 15:16	1
Benzo[b]fluoranthene	ND		4.7	0.32	ug/L		06/16/16 07:48	06/17/16 15:16	1
Benzo[g,h,i]perylene	ND		4.7	0.33	ug/L		06/16/16 07:48	06/17/16 15:16	1
Benzo[k]fluoranthene	ND		4.7	0.69	ug/L		06/16/16 07:48	06/17/16 15:16	1
Bis(2-chloroethoxy)methane	ND		4.7	0.33	ug/L		06/16/16 07:48	06/17/16 15:16	1
Bis(2-chloroethyl)ether	ND		4.7	0.38	ug/L		06/16/16 07:48	06/17/16 15:16	1
Bis(2-ethylhexyl) phthalate	ND		4.7	2.1	ug/L		06/16/16 07:48	06/17/16 15:16	1
Butyl benzyl phthalate	ND		4.7	0.95	ug/L		06/16/16 07:48	06/17/16 15:16	1
Caprolactam	ND		4.7	2.1	ug/L		06/16/16 07:48	06/17/16 15:16	1
Carbazole	ND		4.7	0.28	ug/L		06/16/16 07:48	06/17/16 15:16	1
Chrysene	ND		4.7	0.31	ug/L		06/16/16 07:48	06/17/16 15:16	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-10**

**Lab Sample ID: 480-101666-2**

**Date Collected: 06/14/16 11:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		4.7	0.40	ug/L		06/16/16 07:48	06/17/16 15:16	1
Di-n-butyl phthalate	ND		4.7	0.29	ug/L		06/16/16 07:48	06/17/16 15:16	1
Di-n-octyl phthalate	ND		4.7	0.45	ug/L		06/16/16 07:48	06/17/16 15:16	1
Dibenzofuran	ND		9.5	0.48	ug/L		06/16/16 07:48	06/17/16 15:16	1
Diethyl phthalate	ND		4.7	0.21	ug/L		06/16/16 07:48	06/17/16 15:16	1
Dimethyl phthalate	ND		4.7	0.34	ug/L		06/16/16 07:48	06/17/16 15:16	1
<b>Fluoranthene</b>	<b>0.68</b>	<b>J</b>	4.7	0.38	ug/L		06/16/16 07:48	06/17/16 15:16	1
Fluorene	ND		4.7	0.34	ug/L		06/16/16 07:48	06/17/16 15:16	1
Hexachlorobenzene	ND		4.7	0.48	ug/L		06/16/16 07:48	06/17/16 15:16	1
Hexachlorobutadiene	ND		4.7	0.64	ug/L		06/16/16 07:48	06/17/16 15:16	1
Hexachlorocyclopentadiene	ND		4.7	0.56	ug/L		06/16/16 07:48	06/17/16 15:16	1
Hexachloroethane	ND		4.7	0.56	ug/L		06/16/16 07:48	06/17/16 15:16	1
Indeno[1,2,3-cd]pyrene	ND		4.7	0.45	ug/L		06/16/16 07:48	06/17/16 15:16	1
Isophorone	ND		4.7	0.41	ug/L		06/16/16 07:48	06/17/16 15:16	1
N-Nitrosodi-n-propylamine	ND		4.7	0.51	ug/L		06/16/16 07:48	06/17/16 15:16	1
N-Nitrosodiphenylamine	ND		4.7	0.48	ug/L		06/16/16 07:48	06/17/16 15:16	1
Naphthalene	ND		4.7	0.72	ug/L		06/16/16 07:48	06/17/16 15:16	1
Nitrobenzene	ND		4.7	0.27	ug/L		06/16/16 07:48	06/17/16 15:16	1
Pentachlorophenol	ND		9.5	2.1	ug/L		06/16/16 07:48	06/17/16 15:16	1
<b>Phenanthrene</b>	<b>0.74</b>	<b>J</b>	4.7	0.42	ug/L		06/16/16 07:48	06/17/16 15:16	1
Phenol	ND		4.7	0.37	ug/L		06/16/16 07:48	06/17/16 15:16	1
<b>Pyrene</b>	<b>0.46</b>	<b>J</b>	4.7	0.32	ug/L		06/16/16 07:48	06/17/16 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	88		46 - 120	06/16/16 07:48	06/17/16 15:16	1
Phenol-d5 (Surr)	50		16 - 120	06/16/16 07:48	06/17/16 15:16	1
p-Terphenyl-d14 (Surr)	97		67 - 150	06/16/16 07:48	06/17/16 15:16	1
2,4,6-Tribromophenol (Surr)	90		52 - 132	06/16/16 07:48	06/17/16 15:16	1
2-Fluorobiphenyl	86		48 - 120	06/16/16 07:48	06/17/16 15:16	1
2-Fluorophenol (Surr)	71		20 - 120	06/16/16 07:48	06/17/16 15:16	1

## Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.23	0.043	ug/L		06/16/16 08:00	06/17/16 12:57	5
4,4'-DDE	ND		0.23	0.054	ug/L		06/16/16 08:00	06/17/16 12:57	5
4,4'-DDT	ND		0.23	0.051	ug/L		06/16/16 08:00	06/17/16 12:57	5
Aldrin	ND		0.23	0.038	ug/L		06/16/16 08:00	06/17/16 12:57	5
alpha-BHC	ND		0.23	0.036	ug/L		06/16/16 08:00	06/17/16 12:57	5
alpha-Chlordane	ND		0.23	0.069	ug/L		06/16/16 08:00	06/17/16 12:57	5
beta-BHC	ND		0.23	0.12	ug/L		06/16/16 08:00	06/17/16 12:57	5
delta-BHC	ND		0.23	0.046	ug/L		06/16/16 08:00	06/17/16 12:57	5
Dieldrin	ND		0.23	0.046	ug/L		06/16/16 08:00	06/17/16 12:57	5
Endosulfan I	ND		0.23	0.051	ug/L		06/16/16 08:00	06/17/16 12:57	5
Endosulfan II	ND		0.23	0.056	ug/L		06/16/16 08:00	06/17/16 12:57	5
Endosulfan sulfate	ND		0.23	0.073	ug/L		06/16/16 08:00	06/17/16 12:57	5
Endrin	ND		0.23	0.064	ug/L		06/16/16 08:00	06/17/16 12:57	5
Endrin aldehyde	ND		0.23	0.076	ug/L		06/16/16 08:00	06/17/16 12:57	5
Endrin ketone	ND		0.23	0.056	ug/L		06/16/16 08:00	06/17/16 12:57	5
gamma-BHC (Lindane)	ND		0.23	0.037	ug/L		06/16/16 08:00	06/17/16 12:57	5
gamma-Chlordane	ND		0.23	0.051	ug/L		06/16/16 08:00	06/17/16 12:57	5

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-10**

**Lab Sample ID: 480-101666-2**

**Date Collected: 06/14/16 11:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.23	0.040	ug/L		06/16/16 08:00	06/17/16 12:57	5
Heptachlor epoxide	ND		0.23	0.034	ug/L		06/16/16 08:00	06/17/16 12:57	5
Methoxychlor	ND		0.23	0.066	ug/L		06/16/16 08:00	06/17/16 12:57	5
Toxaphene	ND		2.3	0.56	ug/L		06/16/16 08:00	06/17/16 12:57	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	29		20 - 120				06/16/16 08:00	06/17/16 12:57	5
DCB Decachlorobiphenyl	44		20 - 120				06/16/16 08:00	06/17/16 12:57	5
Tetrachloro-m-xylene	243	X	36 - 120				06/16/16 08:00	06/17/16 12:57	5
Tetrachloro-m-xylene	108		36 - 120				06/16/16 08:00	06/17/16 12:57	5

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 00:40	1
PCB-1221	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 00:40	1
PCB-1232	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 00:40	1
PCB-1242	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 00:40	1
PCB-1248	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 00:40	1
PCB-1254	ND		0.48	0.24	ug/L		06/16/16 07:53	06/17/16 00:40	1
PCB-1260	ND		0.48	0.24	ug/L		06/16/16 07:53	06/17/16 00:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		24 - 137				06/16/16 07:53	06/17/16 00:40	1
Tetrachloro-m-xylene	84		24 - 137				06/16/16 07:53	06/17/16 00:40	1
DCB Decachlorobiphenyl	47		19 - 125				06/16/16 07:53	06/17/16 00:40	1
DCB Decachlorobiphenyl	49		19 - 125				06/16/16 07:53	06/17/16 00:40	1

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.47	0.065	ug/L		06/15/16 15:50	06/16/16 23:54	1
Silvex (2,4,5-TP)	ND		0.47	0.047	ug/L		06/15/16 15:50	06/16/16 23:54	1
2,4-D	ND		0.47	0.16	ug/L		06/15/16 15:50	06/16/16 23:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	91		35 - 143				06/15/16 15:50	06/16/16 23:54	1
2,4-Dichlorophenylacetic acid	83		35 - 143				06/15/16 15:50	06/16/16 23:54	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>1.3</b>		0.20		mg/L		06/16/16 07:34	06/16/16 18:24	1
Antimony	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:24	1
Arsenic	ND		0.015		mg/L		06/16/16 07:34	06/16/16 18:24	1
<b>Barium</b>	<b>0.049</b>	<b>B</b>	0.0020		mg/L		06/16/16 07:34	06/16/16 18:24	1
Beryllium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 18:24	1
Cadmium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 18:24	1
<b>Calcium</b>	<b>111</b>		0.50		mg/L		06/16/16 07:34	06/16/16 18:24	1
Chromium	ND		0.0040		mg/L		06/16/16 07:34	06/16/16 18:24	1
Cobalt	ND		0.0040		mg/L		06/16/16 07:34	06/16/16 18:24	1
Copper	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:24	1
<b>Iron</b>	<b>1.3</b>		0.050		mg/L		06/16/16 07:34	06/16/16 18:24	1
Lead	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:24	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-10**

**Lab Sample ID: 480-101666-2**

**Date Collected: 06/14/16 11:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

### Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Magnesium</b>	<b>44.6</b>		0.20		mg/L		06/16/16 07:34	06/16/16 18:24	1
<b>Manganese</b>	<b>0.14</b>		0.0030		mg/L		06/16/16 07:34	06/16/16 18:24	1
Nickel	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:24	1
<b>Potassium</b>	<b>9.9</b>		0.50		mg/L		06/16/16 07:34	06/16/16 18:24	1
Selenium	ND		0.025		mg/L		06/16/16 07:34	06/16/16 18:24	1
Silver	ND		0.0060		mg/L		06/16/16 07:34	06/16/16 18:24	1
<b>Sodium</b>	<b>89.1</b>		1.0		mg/L		06/16/16 07:34	06/16/16 18:24	1
Thallium	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:24	1
Vanadium	ND		0.0050		mg/L		06/16/16 07:34	06/16/16 18:24	1
<b>Zinc</b>	<b>0.031</b>		0.010		mg/L		06/16/16 07:34	06/16/16 18:24	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/16/16 06:55	06/16/16 11:20	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		06/16/16 10:12	06/17/16 09:12	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-8**

**Lab Sample ID: 480-101666-3**

**Date Collected: 06/14/16 15:55**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	1.0	0.82	ug/L			06/16/16 01:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/16/16 01:38	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/16/16 01:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/16/16 01:38	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/16/16 01:38	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/16/16 01:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/16/16 01:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/16/16 01:38	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/16/16 01:38	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/16/16 01:38	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/16/16 01:38	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/16/16 01:38	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/16/16 01:38	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/16/16 01:38	1
2-Hexanone	ND		5.0	1.2	ug/L			06/16/16 01:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/16/16 01:38	1
<b>Acetone</b>	<b>4.3</b>	<b>J</b>	10	3.0	ug/L			06/16/16 01:38	1
Benzene	ND		1.0	0.41	ug/L			06/16/16 01:38	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/16/16 01:38	1
Bromoform	ND		1.0	0.26	ug/L			06/16/16 01:38	1
Bromomethane	ND		1.0	0.69	ug/L			06/16/16 01:38	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/16/16 01:38	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/16/16 01:38	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/16/16 01:38	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/16/16 01:38	1
Chloroethane	ND		1.0	0.32	ug/L			06/16/16 01:38	1
Chloroform	ND		1.0	0.34	ug/L			06/16/16 01:38	1
Chloromethane	ND		1.0	0.35	ug/L			06/16/16 01:38	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/16/16 01:38	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/16/16 01:38	1
Cyclohexane	ND		1.0	0.18	ug/L			06/16/16 01:38	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/16/16 01:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/16/16 01:38	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/16/16 01:38	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/16/16 01:38	1
Methyl acetate	ND		2.5	1.3	ug/L			06/16/16 01:38	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/16/16 01:38	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/16/16 01:38	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/16/16 01:38	1
Styrene	ND		1.0	0.73	ug/L			06/16/16 01:38	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/16/16 01:38	1
Toluene	ND		1.0	0.51	ug/L			06/16/16 01:38	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/16/16 01:38	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/16/16 01:38	1
Trichloroethene	ND		1.0	0.46	ug/L			06/16/16 01:38	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/16/16 01:38	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/16/16 01:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/16/16 01:38	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-8**

**Lab Sample ID: 480-101666-3**

**Date Collected: 06/14/16 15:55**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		71 - 126		06/16/16 01:38	1
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		06/16/16 01:38	1
4-Bromofluorobenzene (Surr)	115		73 - 120		06/16/16 01:38	1
Dibromofluoromethane (Surr)	92		60 - 140		06/16/16 01:38	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4.7	0.61	ug/L		06/16/16 07:48	06/17/16 15:44	1
bis (2-chloroisopropyl) ether	ND		4.7	0.49	ug/L		06/16/16 07:48	06/17/16 15:44	1
2,4,5-Trichlorophenol	ND		4.7	0.45	ug/L		06/16/16 07:48	06/17/16 15:44	1
2,4,6-Trichlorophenol	ND		4.7	0.57	ug/L		06/16/16 07:48	06/17/16 15:44	1
2,4-Dichlorophenol	ND		4.7	0.48	ug/L		06/16/16 07:48	06/17/16 15:44	1
2,4-Dimethylphenol	ND		4.7	0.47	ug/L		06/16/16 07:48	06/17/16 15:44	1
2,4-Dinitrophenol	ND		9.3	2.1	ug/L		06/16/16 07:48	06/17/16 15:44	1
2,4-Dinitrotoluene	ND		4.7	0.42	ug/L		06/16/16 07:48	06/17/16 15:44	1
2,6-Dinitrotoluene	ND		4.7	0.37	ug/L		06/16/16 07:48	06/17/16 15:44	1
2-Chloronaphthalene	ND		4.7	0.43	ug/L		06/16/16 07:48	06/17/16 15:44	1
2-Chlorophenol	ND		4.7	0.49	ug/L		06/16/16 07:48	06/17/16 15:44	1
2-Methylphenol	ND		4.7	0.37	ug/L		06/16/16 07:48	06/17/16 15:44	1
2-Methylnaphthalene	ND		4.7	0.56	ug/L		06/16/16 07:48	06/17/16 15:44	1
2-Nitroaniline	ND		9.3	0.39	ug/L		06/16/16 07:48	06/17/16 15:44	1
2-Nitrophenol	ND		4.7	0.45	ug/L		06/16/16 07:48	06/17/16 15:44	1
3,3'-Dichlorobenzidine	ND		4.7	0.37	ug/L		06/16/16 07:48	06/17/16 15:44	1
3-Nitroaniline	ND		9.3	0.45	ug/L		06/16/16 07:48	06/17/16 15:44	1
4,6-Dinitro-2-methylphenol	ND		9.3	2.1	ug/L		06/16/16 07:48	06/17/16 15:44	1
4-Bromophenyl phenyl ether	ND		4.7	0.42	ug/L		06/16/16 07:48	06/17/16 15:44	1
4-Chloro-3-methylphenol	ND		4.7	0.42	ug/L		06/16/16 07:48	06/17/16 15:44	1
4-Chloroaniline	ND		4.7	0.55	ug/L		06/16/16 07:48	06/17/16 15:44	1
4-Chlorophenyl phenyl ether	ND		4.7	0.33	ug/L		06/16/16 07:48	06/17/16 15:44	1
4-Methylphenol	ND		9.3	0.34	ug/L		06/16/16 07:48	06/17/16 15:44	1
4-Nitroaniline	ND		9.3	0.23	ug/L		06/16/16 07:48	06/17/16 15:44	1
4-Nitrophenol	ND		9.3	1.4	ug/L		06/16/16 07:48	06/17/16 15:44	1
Acenaphthene	ND		4.7	0.38	ug/L		06/16/16 07:48	06/17/16 15:44	1
Acenaphthylene	ND		4.7	0.35	ug/L		06/16/16 07:48	06/17/16 15:44	1
Acetophenone	ND		4.7	0.50	ug/L		06/16/16 07:48	06/17/16 15:44	1
Anthracene	ND		4.7	0.26	ug/L		06/16/16 07:48	06/17/16 15:44	1
Atrazine	ND		4.7	0.43	ug/L		06/16/16 07:48	06/17/16 15:44	1
Benzaldehyde	ND		4.7	0.25	ug/L		06/16/16 07:48	06/17/16 15:44	1
Benzo[a]anthracene	ND		4.7	0.34	ug/L		06/16/16 07:48	06/17/16 15:44	1
Benzo[a]pyrene	ND		4.7	0.44	ug/L		06/16/16 07:48	06/17/16 15:44	1
Benzo[b]fluoranthene	ND		4.7	0.32	ug/L		06/16/16 07:48	06/17/16 15:44	1
Benzo[g,h,i]perylene	ND		4.7	0.33	ug/L		06/16/16 07:48	06/17/16 15:44	1
Benzo[k]fluoranthene	ND		4.7	0.68	ug/L		06/16/16 07:48	06/17/16 15:44	1
Bis(2-chloroethoxy)methane	ND		4.7	0.33	ug/L		06/16/16 07:48	06/17/16 15:44	1
Bis(2-chloroethyl)ether	ND		4.7	0.37	ug/L		06/16/16 07:48	06/17/16 15:44	1
Bis(2-ethylhexyl) phthalate	ND		4.7	2.1	ug/L		06/16/16 07:48	06/17/16 15:44	1
<b>Butyl benzyl phthalate</b>	<b>2.3</b>	<b>J</b>	4.7	0.93	ug/L		06/16/16 07:48	06/17/16 15:44	1
Caprolactam	ND		4.7	2.1	ug/L		06/16/16 07:48	06/17/16 15:44	1
Carbazole	ND		4.7	0.28	ug/L		06/16/16 07:48	06/17/16 15:44	1
Chrysene	ND		4.7	0.31	ug/L		06/16/16 07:48	06/17/16 15:44	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-8**

**Lab Sample ID: 480-101666-3**

**Date Collected: 06/14/16 15:55**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		4.7	0.39	ug/L		06/16/16 07:48	06/17/16 15:44	1
Di-n-butyl phthalate	ND		4.7	0.29	ug/L		06/16/16 07:48	06/17/16 15:44	1
Di-n-octyl phthalate	ND		4.7	0.44	ug/L		06/16/16 07:48	06/17/16 15:44	1
Dibenzofuran	ND		9.3	0.48	ug/L		06/16/16 07:48	06/17/16 15:44	1
Diethyl phthalate	ND		4.7	0.21	ug/L		06/16/16 07:48	06/17/16 15:44	1
Dimethyl phthalate	ND		4.7	0.34	ug/L		06/16/16 07:48	06/17/16 15:44	1
Fluoranthene	ND		4.7	0.37	ug/L		06/16/16 07:48	06/17/16 15:44	1
Fluorene	ND		4.7	0.34	ug/L		06/16/16 07:48	06/17/16 15:44	1
Hexachlorobenzene	ND		4.7	0.48	ug/L		06/16/16 07:48	06/17/16 15:44	1
Hexachlorobutadiene	ND		4.7	0.63	ug/L		06/16/16 07:48	06/17/16 15:44	1
Hexachlorocyclopentadiene	ND		4.7	0.55	ug/L		06/16/16 07:48	06/17/16 15:44	1
Hexachloroethane	ND		4.7	0.55	ug/L		06/16/16 07:48	06/17/16 15:44	1
Indeno[1,2,3-cd]pyrene	ND		4.7	0.44	ug/L		06/16/16 07:48	06/17/16 15:44	1
Isophorone	ND		4.7	0.40	ug/L		06/16/16 07:48	06/17/16 15:44	1
N-Nitrosodi-n-propylamine	ND		4.7	0.50	ug/L		06/16/16 07:48	06/17/16 15:44	1
N-Nitrosodiphenylamine	ND		4.7	0.48	ug/L		06/16/16 07:48	06/17/16 15:44	1
Naphthalene	ND		4.7	0.71	ug/L		06/16/16 07:48	06/17/16 15:44	1
Nitrobenzene	ND		4.7	0.27	ug/L		06/16/16 07:48	06/17/16 15:44	1
Pentachlorophenol	ND		9.3	2.1	ug/L		06/16/16 07:48	06/17/16 15:44	1
Phenanthrene	ND		4.7	0.41	ug/L		06/16/16 07:48	06/17/16 15:44	1
Phenol	ND		4.7	0.36	ug/L		06/16/16 07:48	06/17/16 15:44	1
Pyrene	ND		4.7	0.32	ug/L		06/16/16 07:48	06/17/16 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	79		46 - 120	06/16/16 07:48	06/17/16 15:44	1
Phenol-d5 (Surr)	42		16 - 120	06/16/16 07:48	06/17/16 15:44	1
p-Terphenyl-d14 (Surr)	92		67 - 150	06/16/16 07:48	06/17/16 15:44	1
2,4,6-Tribromophenol (Surr)	85		52 - 132	06/16/16 07:48	06/17/16 15:44	1
2-Fluorobiphenyl	75		48 - 120	06/16/16 07:48	06/17/16 15:44	1
2-Fluorophenol (Surr)	59		20 - 120	06/16/16 07:48	06/17/16 15:44	1

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.048	0.0088	ug/L		06/16/16 08:00	06/17/16 13:17	1
4,4'-DDE	ND		0.048	0.011	ug/L		06/16/16 08:00	06/17/16 13:17	1
4,4'-DDT	ND		0.048	0.011	ug/L		06/16/16 08:00	06/17/16 13:17	1
Aldrin	ND		0.048	0.0078	ug/L		06/16/16 08:00	06/17/16 13:17	1
alpha-BHC	ND		0.048	0.0074	ug/L		06/16/16 08:00	06/17/16 13:17	1
alpha-Chlordane	ND		0.048	0.014	ug/L		06/16/16 08:00	06/17/16 13:17	1
beta-BHC	ND		0.048	0.024	ug/L		06/16/16 08:00	06/17/16 13:17	1
delta-BHC	ND		0.048	0.0096	ug/L		06/16/16 08:00	06/17/16 13:17	1
Dieldrin	ND		0.048	0.0094	ug/L		06/16/16 08:00	06/17/16 13:17	1
Endosulfan I	ND		0.048	0.011	ug/L		06/16/16 08:00	06/17/16 13:17	1
Endosulfan II	ND		0.048	0.012	ug/L		06/16/16 08:00	06/17/16 13:17	1
Endosulfan sulfate	ND		0.048	0.015	ug/L		06/16/16 08:00	06/17/16 13:17	1
Endrin	ND		0.048	0.013	ug/L		06/16/16 08:00	06/17/16 13:17	1
Endrin aldehyde	ND		0.048	0.016	ug/L		06/16/16 08:00	06/17/16 13:17	1
Endrin ketone	ND		0.048	0.012	ug/L		06/16/16 08:00	06/17/16 13:17	1
gamma-BHC (Lindane)	ND		0.048	0.0077	ug/L		06/16/16 08:00	06/17/16 13:17	1
gamma-Chlordane	ND		0.048	0.011	ug/L		06/16/16 08:00	06/17/16 13:17	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-8**

**Lab Sample ID: 480-101666-3**

**Date Collected: 06/14/16 15:55**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.048	0.0082	ug/L		06/16/16 08:00	06/17/16 13:17	1
Heptachlor epoxide	ND		0.048	0.0071	ug/L		06/16/16 08:00	06/17/16 13:17	1
Methoxychlor	ND		0.048	0.014	ug/L		06/16/16 08:00	06/17/16 13:17	1
Toxaphene	ND		0.48	0.12	ug/L		06/16/16 08:00	06/17/16 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	35		20 - 120	06/16/16 08:00	06/17/16 13:17	1
DCB Decachlorobiphenyl	51		20 - 120	06/16/16 08:00	06/17/16 13:17	1
Tetrachloro-m-xylene	60		36 - 120	06/16/16 08:00	06/17/16 13:17	1
Tetrachloro-m-xylene	62		36 - 120	06/16/16 08:00	06/17/16 13:17	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 00:55	1
PCB-1221	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 00:55	1
PCB-1232	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 00:55	1
PCB-1242	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 00:55	1
PCB-1248	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 00:55	1
PCB-1254	ND		0.48	0.24	ug/L		06/16/16 07:53	06/17/16 00:55	1
PCB-1260	ND		0.48	0.24	ug/L		06/16/16 07:53	06/17/16 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		24 - 137	06/16/16 07:53	06/17/16 00:55	1
Tetrachloro-m-xylene	91		24 - 137	06/16/16 07:53	06/17/16 00:55	1
DCB Decachlorobiphenyl	54		19 - 125	06/16/16 07:53	06/17/16 00:55	1
DCB Decachlorobiphenyl	54		19 - 125	06/16/16 07:53	06/17/16 00:55	1

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.91	0.12	ug/L		06/15/16 15:50	06/17/16 00:24	1
Silvex (2,4,5-TP)	ND		0.91	0.091	ug/L		06/15/16 15:50	06/17/16 00:24	1
2,4-D	ND		0.91	0.31	ug/L		06/15/16 15:50	06/17/16 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	91		35 - 143	06/15/16 15:50	06/17/16 00:24	1
2,4-Dichlorophenylacetic acid	78		35 - 143	06/15/16 15:50	06/17/16 00:24	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.4		0.20		mg/L		06/16/16 07:34	06/16/16 18:27	1
Antimony	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:27	1
Arsenic	ND		0.015		mg/L		06/16/16 07:34	06/16/16 18:27	1
Barium	0.36	B	0.0020		mg/L		06/16/16 07:34	06/16/16 18:27	1
Beryllium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 18:27	1
Cadmium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 18:27	1
Calcium	151		0.50		mg/L		06/16/16 07:34	06/16/16 18:27	1
Chromium	0.0099		0.0040		mg/L		06/16/16 07:34	06/16/16 18:27	1
Cobalt	0.0066		0.0040		mg/L		06/16/16 07:34	06/16/16 18:27	1
Copper	0.013		0.010		mg/L		06/16/16 07:34	06/16/16 18:27	1
Iron	1.7		0.050		mg/L		06/16/16 07:34	06/16/16 18:27	1
Lead	0.019		0.010		mg/L		06/16/16 07:34	06/16/16 18:27	1

TestAmerica Buffalo



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-8**

**Lab Sample ID: 480-101666-3**

**Date Collected: 06/14/16 15:55**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	61.6		0.20		mg/L		06/16/16 07:34	06/16/16 18:27	1
Manganese	0.16		0.0030		mg/L		06/16/16 07:34	06/16/16 18:27	1
Nickel	0.014		0.010		mg/L		06/16/16 07:34	06/16/16 18:27	1
Potassium	37.9		0.50		mg/L		06/16/16 07:34	06/16/16 18:27	1
Selenium	ND		0.025		mg/L		06/16/16 07:34	06/16/16 18:27	1
Silver	ND		0.0060		mg/L		06/16/16 07:34	06/16/16 18:27	1
Sodium	248		1.0		mg/L		06/16/16 07:34	06/16/16 18:27	1
Thallium	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:27	1
Vanadium	ND		0.0050		mg/L		06/16/16 07:34	06/16/16 18:27	1
Zinc	0.19		0.010		mg/L		06/16/16 07:34	06/16/16 18:27	1

## Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		06/17/16 11:15	06/17/16 22:47	1
Antimony	ND		0.020		mg/L		06/17/16 11:15	06/17/16 22:47	1
Arsenic	ND		0.015		mg/L		06/17/16 11:15	06/17/16 22:47	1
Barium	0.019		0.0020		mg/L		06/17/16 11:15	06/17/16 22:47	1
Beryllium	ND		0.0020		mg/L		06/17/16 11:15	06/17/16 22:47	1
Cadmium	ND		0.0020		mg/L		06/17/16 11:15	06/17/16 22:47	1
Calcium	144		0.50		mg/L		06/17/16 11:15	06/17/16 22:47	1
Chromium	ND		0.0040		mg/L		06/17/16 11:15	06/17/16 22:47	1
Cobalt	0.0055		0.0040		mg/L		06/17/16 11:15	06/17/16 22:47	1
Copper	ND		0.010		mg/L		06/17/16 11:15	06/17/16 22:47	1
Iron	ND		0.050		mg/L		06/17/16 11:15	06/17/16 22:47	1
Lead	ND		0.010		mg/L		06/17/16 11:15	06/17/16 22:47	1
Magnesium	59.7		0.20		mg/L		06/17/16 11:15	06/17/16 22:47	1
Manganese	0.12		0.0030		mg/L		06/17/16 11:15	06/17/16 22:47	1
Nickel	ND		0.010		mg/L		06/17/16 11:15	06/17/16 22:47	1
Potassium	32.7		0.50		mg/L		06/17/16 11:15	06/17/16 22:47	1
Selenium	ND		0.025		mg/L		06/17/16 11:15	06/17/16 22:47	1
Silver	ND		0.0060		mg/L		06/17/16 11:15	06/17/16 22:47	1
Sodium	244		1.0		mg/L		06/17/16 11:15	06/17/16 22:47	1
Thallium	ND		0.020		mg/L		06/17/16 11:15	06/17/16 22:47	1
Vanadium	ND		0.0050		mg/L		06/17/16 11:15	06/17/16 22:47	1
Zinc	0.052		0.010		mg/L		06/17/16 11:15	06/17/16 22:47	1

## Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00024		0.00020		mg/L		06/16/16 06:55	06/16/16 11:22	1

## Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/17/16 11:30	06/17/16 14:20	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		06/16/16 10:12	06/17/16 09:13	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: BLIND DUP**

**Lab Sample ID: 480-101666-4**

**Date Collected: 06/14/16 08:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	1.0	0.82	ug/L			06/16/16 02:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/16/16 02:05	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/16/16 02:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/16/16 02:05	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/16/16 02:05	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/16/16 02:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/16/16 02:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/16/16 02:05	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/16/16 02:05	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/16/16 02:05	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/16/16 02:05	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/16/16 02:05	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/16/16 02:05	1
<b>2-Butanone (MEK)</b>	<b>2.4</b>	<b>J</b>	10	1.3	ug/L			06/16/16 02:05	1
2-Hexanone	ND		5.0	1.2	ug/L			06/16/16 02:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/16/16 02:05	1
<b>Acetone</b>	<b>19</b>		10	3.0	ug/L			06/16/16 02:05	1
Benzene	ND		1.0	0.41	ug/L			06/16/16 02:05	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/16/16 02:05	1
Bromoform	ND		1.0	0.26	ug/L			06/16/16 02:05	1
Bromomethane	ND		1.0	0.69	ug/L			06/16/16 02:05	1
<b>Carbon disulfide</b>	<b>1.9</b>		1.0	0.19	ug/L			06/16/16 02:05	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/16/16 02:05	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/16/16 02:05	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/16/16 02:05	1
Chloroethane	ND		1.0	0.32	ug/L			06/16/16 02:05	1
Chloroform	ND		1.0	0.34	ug/L			06/16/16 02:05	1
Chloromethane	ND		1.0	0.35	ug/L			06/16/16 02:05	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/16/16 02:05	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/16/16 02:05	1
Cyclohexane	ND		1.0	0.18	ug/L			06/16/16 02:05	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/16/16 02:05	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/16/16 02:05	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/16/16 02:05	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/16/16 02:05	1
Methyl acetate	ND		2.5	1.3	ug/L			06/16/16 02:05	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/16/16 02:05	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/16/16 02:05	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/16/16 02:05	1
Styrene	ND		1.0	0.73	ug/L			06/16/16 02:05	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/16/16 02:05	1
Toluene	ND		1.0	0.51	ug/L			06/16/16 02:05	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/16/16 02:05	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/16/16 02:05	1
<b>Trichloroethene</b>	<b>2.8</b>		1.0	0.46	ug/L			06/16/16 02:05	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/16/16 02:05	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/16/16 02:05	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/16/16 02:05	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: BLIND DUP**

**Lab Sample ID: 480-101666-4**

**Date Collected: 06/14/16 08:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		71 - 126		06/16/16 02:05	1
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		06/16/16 02:05	1
4-Bromofluorobenzene (Surr)	113		73 - 120		06/16/16 02:05	1
Dibromofluoromethane (Surr)	95		60 - 140		06/16/16 02:05	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		06/16/16 07:48	06/17/16 16:13	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/16/16 07:48	06/17/16 16:13	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/16/16 07:48	06/17/16 16:13	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/16/16 07:48	06/17/16 16:13	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/16/16 07:48	06/17/16 16:13	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/16/16 07:48	06/17/16 16:13	1
2,4-Dinitrophenol	ND		9.9	2.2	ug/L		06/16/16 07:48	06/17/16 16:13	1
2,4-Dinitrotoluene	ND		5.0	0.44	ug/L		06/16/16 07:48	06/17/16 16:13	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/16/16 07:48	06/17/16 16:13	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/16/16 07:48	06/17/16 16:13	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/16/16 07:48	06/17/16 16:13	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/16/16 07:48	06/17/16 16:13	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/16/16 07:48	06/17/16 16:13	1
2-Nitroaniline	ND		9.9	0.42	ug/L		06/16/16 07:48	06/17/16 16:13	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/16/16 07:48	06/17/16 16:13	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/16/16 07:48	06/17/16 16:13	1
3-Nitroaniline	ND		9.9	0.48	ug/L		06/16/16 07:48	06/17/16 16:13	1
4,6-Dinitro-2-methylphenol	ND		9.9	2.2	ug/L		06/16/16 07:48	06/17/16 16:13	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/16/16 07:48	06/17/16 16:13	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/16/16 07:48	06/17/16 16:13	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/16/16 07:48	06/17/16 16:13	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/16/16 07:48	06/17/16 16:13	1
4-Methylphenol	ND		9.9	0.36	ug/L		06/16/16 07:48	06/17/16 16:13	1
4-Nitroaniline	ND		9.9	0.25	ug/L		06/16/16 07:48	06/17/16 16:13	1
4-Nitrophenol	ND		9.9	1.5	ug/L		06/16/16 07:48	06/17/16 16:13	1
Acenaphthene	ND		5.0	0.41	ug/L		06/16/16 07:48	06/17/16 16:13	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/16/16 07:48	06/17/16 16:13	1
Acetophenone	ND		5.0	0.54	ug/L		06/16/16 07:48	06/17/16 16:13	1
Anthracene	ND		5.0	0.28	ug/L		06/16/16 07:48	06/17/16 16:13	1
Atrazine	ND		5.0	0.46	ug/L		06/16/16 07:48	06/17/16 16:13	1
Benzaldehyde	ND		5.0	0.26	ug/L		06/16/16 07:48	06/17/16 16:13	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/16/16 07:48	06/17/16 16:13	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/16/16 07:48	06/17/16 16:13	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/16/16 07:48	06/17/16 16:13	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/16/16 07:48	06/17/16 16:13	1
Benzo[k]fluoranthene	ND		5.0	0.72	ug/L		06/16/16 07:48	06/17/16 16:13	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/16/16 07:48	06/17/16 16:13	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/16/16 07:48	06/17/16 16:13	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/16/16 07:48	06/17/16 16:13	1
Butyl benzyl phthalate	ND		5.0	0.99	ug/L		06/16/16 07:48	06/17/16 16:13	1
Caprolactam	ND		5.0	2.2	ug/L		06/16/16 07:48	06/17/16 16:13	1
Carbazole	ND		5.0	0.30	ug/L		06/16/16 07:48	06/17/16 16:13	1
Chrysene	ND		5.0	0.33	ug/L		06/16/16 07:48	06/17/16 16:13	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: BLIND DUP**

**Lab Sample ID: 480-101666-4**

**Date Collected: 06/14/16 08:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/16/16 07:48	06/17/16 16:13	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		06/16/16 07:48	06/17/16 16:13	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/16/16 07:48	06/17/16 16:13	1
Dibenzofuran	ND		9.9	0.51	ug/L		06/16/16 07:48	06/17/16 16:13	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/16/16 07:48	06/17/16 16:13	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/16/16 07:48	06/17/16 16:13	1
<b>Fluoranthene</b>	<b>0.46</b>	<b>J</b>	5.0	0.40	ug/L		06/16/16 07:48	06/17/16 16:13	1
Fluorene	ND		5.0	0.36	ug/L		06/16/16 07:48	06/17/16 16:13	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/16/16 07:48	06/17/16 16:13	1
Hexachlorobutadiene	ND		5.0	0.67	ug/L		06/16/16 07:48	06/17/16 16:13	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/16/16 07:48	06/17/16 16:13	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/16/16 07:48	06/17/16 16:13	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/16/16 07:48	06/17/16 16:13	1
Isophorone	ND		5.0	0.43	ug/L		06/16/16 07:48	06/17/16 16:13	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/16/16 07:48	06/17/16 16:13	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/16/16 07:48	06/17/16 16:13	1
Naphthalene	ND		5.0	0.75	ug/L		06/16/16 07:48	06/17/16 16:13	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/16/16 07:48	06/17/16 16:13	1
Pentachlorophenol	ND		9.9	2.2	ug/L		06/16/16 07:48	06/17/16 16:13	1
<b>Phenanthrene</b>	<b>0.81</b>	<b>J</b>	5.0	0.44	ug/L		06/16/16 07:48	06/17/16 16:13	1
Phenol	ND		5.0	0.39	ug/L		06/16/16 07:48	06/17/16 16:13	1
Pyrene	ND		5.0	0.34	ug/L		06/16/16 07:48	06/17/16 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	79		46 - 120	06/16/16 07:48	06/17/16 16:13	1
Phenol-d5 (Surr)	46		16 - 120	06/16/16 07:48	06/17/16 16:13	1
p-Terphenyl-d14 (Surr)	98		67 - 150	06/16/16 07:48	06/17/16 16:13	1
2,4,6-Tribromophenol (Surr)	89		52 - 132	06/16/16 07:48	06/17/16 16:13	1
2-Fluorobiphenyl	78		48 - 120	06/16/16 07:48	06/17/16 16:13	1
2-Fluorophenol (Surr)	61		20 - 120	06/16/16 07:48	06/17/16 16:13	1

## Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.25	0.045	ug/L		06/16/16 08:00	06/17/16 13:36	5
4,4'-DDE	ND		0.25	0.057	ug/L		06/16/16 08:00	06/17/16 13:36	5
4,4'-DDT	ND		0.25	0.054	ug/L		06/16/16 08:00	06/17/16 13:36	5
Aldrin	ND		0.25	0.040	ug/L		06/16/16 08:00	06/17/16 13:36	5
alpha-BHC	ND		0.25	0.038	ug/L		06/16/16 08:00	06/17/16 13:36	5
alpha-Chlordane	ND		0.25	0.073	ug/L		06/16/16 08:00	06/17/16 13:36	5
beta-BHC	ND		0.25	0.12	ug/L		06/16/16 08:00	06/17/16 13:36	5
delta-BHC	ND		0.25	0.049	ug/L		06/16/16 08:00	06/17/16 13:36	5
Dieldrin	ND		0.25	0.048	ug/L		06/16/16 08:00	06/17/16 13:36	5
Endosulfan I	ND		0.25	0.054	ug/L		06/16/16 08:00	06/17/16 13:36	5
Endosulfan II	ND		0.25	0.059	ug/L		06/16/16 08:00	06/17/16 13:36	5
Endosulfan sulfate	ND		0.25	0.077	ug/L		06/16/16 08:00	06/17/16 13:36	5
Endrin	ND		0.25	0.068	ug/L		06/16/16 08:00	06/17/16 13:36	5
Endrin aldehyde	ND		0.25	0.080	ug/L		06/16/16 08:00	06/17/16 13:36	5
Endrin ketone	ND		0.25	0.059	ug/L		06/16/16 08:00	06/17/16 13:36	5
gamma-BHC (Lindane)	ND		0.25	0.039	ug/L		06/16/16 08:00	06/17/16 13:36	5
gamma-Chlordane	ND		0.25	0.054	ug/L		06/16/16 08:00	06/17/16 13:36	5

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: BLIND DUP**

**Lab Sample ID: 480-101666-4**

**Date Collected: 06/14/16 08:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.25	0.042	ug/L		06/16/16 08:00	06/17/16 13:36	5
Heptachlor epoxide	ND		0.25	0.036	ug/L		06/16/16 08:00	06/17/16 13:36	5
Methoxychlor	ND		0.25	0.069	ug/L		06/16/16 08:00	06/17/16 13:36	5
Toxaphene	ND		2.5	0.59	ug/L		06/16/16 08:00	06/17/16 13:36	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	X	20 - 120	06/16/16 08:00	06/17/16 13:36	5
DCB Decachlorobiphenyl	0	X	20 - 120	06/16/16 08:00	06/17/16 13:36	5
Tetrachloro-m-xylene	280	X	36 - 120	06/16/16 08:00	06/17/16 13:36	5
Tetrachloro-m-xylene	112		36 - 120	06/16/16 08:00	06/17/16 13:36	5

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 01:11	1
PCB-1221	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 01:11	1
PCB-1232	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 01:11	1
PCB-1242	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 01:11	1
PCB-1248	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 01:11	1
PCB-1254	ND		0.48	0.24	ug/L		06/16/16 07:53	06/17/16 01:11	1
PCB-1260	ND		0.48	0.24	ug/L		06/16/16 07:53	06/17/16 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		24 - 137	06/16/16 07:53	06/17/16 01:11	1
Tetrachloro-m-xylene	90		24 - 137	06/16/16 07:53	06/17/16 01:11	1
DCB Decachlorobiphenyl	48		19 - 125	06/16/16 07:53	06/17/16 01:11	1
DCB Decachlorobiphenyl	49		19 - 125	06/16/16 07:53	06/17/16 01:11	1

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.47	0.065	ug/L		06/15/16 15:50	06/17/16 00:54	1
Silvex (2,4,5-TP)	ND		0.47	0.047	ug/L		06/15/16 15:50	06/17/16 00:54	1
2,4-D	ND		0.47	0.16	ug/L		06/15/16 15:50	06/17/16 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	84		35 - 143	06/15/16 15:50	06/17/16 00:54	1
2,4-Dichlorophenylacetic acid	86		35 - 143	06/15/16 15:50	06/17/16 00:54	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>1.3</b>		0.20		mg/L		06/16/16 07:34	06/16/16 18:31	1
Antimony	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:31	1
Arsenic	ND		0.015		mg/L		06/16/16 07:34	06/16/16 18:31	1
<b>Barium</b>	<b>0.044</b>	<b>B</b>	0.0020		mg/L		06/16/16 07:34	06/16/16 18:31	1
Beryllium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 18:31	1
Cadmium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 18:31	1
<b>Calcium</b>	<b>113</b>		0.50		mg/L		06/16/16 07:34	06/16/16 18:31	1
Chromium	ND		0.0040		mg/L		06/16/16 07:34	06/16/16 18:31	1
Cobalt	ND		0.0040		mg/L		06/16/16 07:34	06/16/16 18:31	1
Copper	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:31	1
<b>Iron</b>	<b>1.2</b>		0.050		mg/L		06/16/16 07:34	06/16/16 18:31	1
Lead	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:31	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: BLIND DUP**

**Lab Sample ID: 480-101666-4**

**Date Collected: 06/14/16 08:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Magnesium</b>	<b>45.1</b>		0.20		mg/L		06/16/16 07:34	06/16/16 18:31	1
<b>Manganese</b>	<b>0.14</b>		0.0030		mg/L		06/16/16 07:34	06/16/16 18:31	1
Nickel	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:31	1
<b>Potassium</b>	<b>9.5</b>		0.50		mg/L		06/16/16 07:34	06/16/16 18:31	1
Selenium	ND		0.025		mg/L		06/16/16 07:34	06/16/16 18:31	1
Silver	ND		0.0060		mg/L		06/16/16 07:34	06/16/16 18:31	1
<b>Sodium</b>	<b>89.1</b>		1.0		mg/L		06/16/16 07:34	06/16/16 18:31	1
Thallium	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:31	1
Vanadium	ND		0.0050		mg/L		06/16/16 07:34	06/16/16 18:31	1
<b>Zinc</b>	<b>0.025</b>		0.010		mg/L		06/16/16 07:34	06/16/16 18:31	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/16/16 06:55	06/16/16 11:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		06/16/16 10:12	06/17/16 09:14	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-6**

**Lab Sample ID: 480-101666-5**

**Date Collected: 06/14/16 17:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	1.0	0.82	ug/L			06/16/16 02:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/16/16 02:32	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/16/16 02:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/16/16 02:32	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/16/16 02:32	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/16/16 02:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/16/16 02:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/16/16 02:32	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/16/16 02:32	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/16/16 02:32	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/16/16 02:32	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/16/16 02:32	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/16/16 02:32	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/16/16 02:32	1
2-Hexanone	ND		5.0	1.2	ug/L			06/16/16 02:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/16/16 02:32	1
<b>Acetone</b>	<b>3.8</b>	<b>J</b>	10	3.0	ug/L			06/16/16 02:32	1
Benzene	ND		1.0	0.41	ug/L			06/16/16 02:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/16/16 02:32	1
Bromoform	ND		1.0	0.26	ug/L			06/16/16 02:32	1
Bromomethane	ND		1.0	0.69	ug/L			06/16/16 02:32	1
<b>Carbon disulfide</b>	<b>0.38</b>	<b>J</b>	1.0	0.19	ug/L			06/16/16 02:32	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/16/16 02:32	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/16/16 02:32	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/16/16 02:32	1
Chloroethane	ND		1.0	0.32	ug/L			06/16/16 02:32	1
Chloroform	ND		1.0	0.34	ug/L			06/16/16 02:32	1
Chloromethane	ND		1.0	0.35	ug/L			06/16/16 02:32	1
<b>cis-1,2-Dichloroethene</b>	<b>1.9</b>		1.0	0.81	ug/L			06/16/16 02:32	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/16/16 02:32	1
Cyclohexane	ND		1.0	0.18	ug/L			06/16/16 02:32	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/16/16 02:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/16/16 02:32	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/16/16 02:32	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/16/16 02:32	1
Methyl acetate	ND		2.5	1.3	ug/L			06/16/16 02:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/16/16 02:32	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/16/16 02:32	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/16/16 02:32	1
Styrene	ND		1.0	0.73	ug/L			06/16/16 02:32	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/16/16 02:32	1
Toluene	ND		1.0	0.51	ug/L			06/16/16 02:32	1
<b>trans-1,2-Dichloroethene</b>	<b>1.3</b>		1.0	0.90	ug/L			06/16/16 02:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/16/16 02:32	1
Trichloroethene	ND		1.0	0.46	ug/L			06/16/16 02:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/16/16 02:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/16/16 02:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/16/16 02:32	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-6**

**Lab Sample ID: 480-101666-5**

**Date Collected: 06/14/16 17:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		71 - 126		06/16/16 02:32	1
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		06/16/16 02:32	1
4-Bromofluorobenzene (Surr)	114		73 - 120		06/16/16 02:32	1
Dibromofluoromethane (Surr)	93		60 - 140		06/16/16 02:32	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4.7	0.62	ug/L		06/16/16 07:48	06/17/16 16:42	1
bis (2-chloroisopropyl) ether	ND		4.7	0.49	ug/L		06/16/16 07:48	06/17/16 16:42	1
2,4,5-Trichlorophenol	ND		4.7	0.45	ug/L		06/16/16 07:48	06/17/16 16:42	1
2,4,6-Trichlorophenol	ND		4.7	0.58	ug/L		06/16/16 07:48	06/17/16 16:42	1
2,4-Dichlorophenol	ND		4.7	0.48	ug/L		06/16/16 07:48	06/17/16 16:42	1
2,4-Dimethylphenol	ND		4.7	0.47	ug/L		06/16/16 07:48	06/17/16 16:42	1
2,4-Dinitrophenol	ND		9.4	2.1	ug/L		06/16/16 07:48	06/17/16 16:42	1
2,4-Dinitrotoluene	ND		4.7	0.42	ug/L		06/16/16 07:48	06/17/16 16:42	1
2,6-Dinitrotoluene	ND		4.7	0.38	ug/L		06/16/16 07:48	06/17/16 16:42	1
2-Chloronaphthalene	ND		4.7	0.43	ug/L		06/16/16 07:48	06/17/16 16:42	1
2-Chlorophenol	ND		4.7	0.50	ug/L		06/16/16 07:48	06/17/16 16:42	1
2-Methylphenol	ND		4.7	0.38	ug/L		06/16/16 07:48	06/17/16 16:42	1
2-Methylnaphthalene	ND		4.7	0.57	ug/L		06/16/16 07:48	06/17/16 16:42	1
2-Nitroaniline	ND		9.4	0.40	ug/L		06/16/16 07:48	06/17/16 16:42	1
2-Nitrophenol	ND		4.7	0.45	ug/L		06/16/16 07:48	06/17/16 16:42	1
3,3'-Dichlorobenzidine	ND		4.7	0.38	ug/L		06/16/16 07:48	06/17/16 16:42	1
3-Nitroaniline	ND		9.4	0.45	ug/L		06/16/16 07:48	06/17/16 16:42	1
4,6-Dinitro-2-methylphenol	ND		9.4	2.1	ug/L		06/16/16 07:48	06/17/16 16:42	1
4-Bromophenyl phenyl ether	ND		4.7	0.42	ug/L		06/16/16 07:48	06/17/16 16:42	1
4-Chloro-3-methylphenol	ND		4.7	0.42	ug/L		06/16/16 07:48	06/17/16 16:42	1
4-Chloroaniline	ND		4.7	0.56	ug/L		06/16/16 07:48	06/17/16 16:42	1
4-Chlorophenyl phenyl ether	ND		4.7	0.33	ug/L		06/16/16 07:48	06/17/16 16:42	1
4-Methylphenol	ND		9.4	0.34	ug/L		06/16/16 07:48	06/17/16 16:42	1
4-Nitroaniline	ND		9.4	0.24	ug/L		06/16/16 07:48	06/17/16 16:42	1
4-Nitrophenol	ND		9.4	1.4	ug/L		06/16/16 07:48	06/17/16 16:42	1
Acenaphthene	ND		4.7	0.39	ug/L		06/16/16 07:48	06/17/16 16:42	1
Acenaphthylene	ND		4.7	0.36	ug/L		06/16/16 07:48	06/17/16 16:42	1
Acetophenone	ND		4.7	0.51	ug/L		06/16/16 07:48	06/17/16 16:42	1
Anthracene	ND		4.7	0.26	ug/L		06/16/16 07:48	06/17/16 16:42	1
Atrazine	ND		4.7	0.43	ug/L		06/16/16 07:48	06/17/16 16:42	1
Benzaldehyde	ND		4.7	0.25	ug/L		06/16/16 07:48	06/17/16 16:42	1
Benzo[a]anthracene	ND		4.7	0.34	ug/L		06/16/16 07:48	06/17/16 16:42	1
Benzo[a]pyrene	ND		4.7	0.44	ug/L		06/16/16 07:48	06/17/16 16:42	1
Benzo[b]fluoranthene	ND		4.7	0.32	ug/L		06/16/16 07:48	06/17/16 16:42	1
Benzo[g,h,i]perylene	ND		4.7	0.33	ug/L		06/16/16 07:48	06/17/16 16:42	1
Benzo[k]fluoranthene	ND		4.7	0.69	ug/L		06/16/16 07:48	06/17/16 16:42	1
Bis(2-chloroethoxy)methane	ND		4.7	0.33	ug/L		06/16/16 07:48	06/17/16 16:42	1
Bis(2-chloroethyl)ether	ND		4.7	0.38	ug/L		06/16/16 07:48	06/17/16 16:42	1
Bis(2-ethylhexyl) phthalate	ND		4.7	2.1	ug/L		06/16/16 07:48	06/17/16 16:42	1
Butyl benzyl phthalate	ND		4.7	0.94	ug/L		06/16/16 07:48	06/17/16 16:42	1
Caprolactam	ND		4.7	2.1	ug/L		06/16/16 07:48	06/17/16 16:42	1
Carbazole	ND		4.7	0.28	ug/L		06/16/16 07:48	06/17/16 16:42	1
Chrysene	ND		4.7	0.31	ug/L		06/16/16 07:48	06/17/16 16:42	1

TestAmerica Buffalo



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-6**

**Lab Sample ID: 480-101666-5**

**Date Collected: 06/14/16 17:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		4.7	0.40	ug/L		06/16/16 07:48	06/17/16 16:42	1
Di-n-butyl phthalate	ND		4.7	0.29	ug/L		06/16/16 07:48	06/17/16 16:42	1
Di-n-octyl phthalate	ND		4.7	0.44	ug/L		06/16/16 07:48	06/17/16 16:42	1
Dibenzofuran	ND		9.4	0.48	ug/L		06/16/16 07:48	06/17/16 16:42	1
Diethyl phthalate	ND		4.7	0.21	ug/L		06/16/16 07:48	06/17/16 16:42	1
Dimethyl phthalate	ND		4.7	0.34	ug/L		06/16/16 07:48	06/17/16 16:42	1
Fluoranthene	ND		4.7	0.38	ug/L		06/16/16 07:48	06/17/16 16:42	1
Fluorene	ND		4.7	0.34	ug/L		06/16/16 07:48	06/17/16 16:42	1
Hexachlorobenzene	ND		4.7	0.48	ug/L		06/16/16 07:48	06/17/16 16:42	1
Hexachlorobutadiene	ND		4.7	0.64	ug/L		06/16/16 07:48	06/17/16 16:42	1
Hexachlorocyclopentadiene	ND		4.7	0.56	ug/L		06/16/16 07:48	06/17/16 16:42	1
Hexachloroethane	ND		4.7	0.56	ug/L		06/16/16 07:48	06/17/16 16:42	1
Indeno[1,2,3-cd]pyrene	ND		4.7	0.44	ug/L		06/16/16 07:48	06/17/16 16:42	1
Isophorone	ND		4.7	0.41	ug/L		06/16/16 07:48	06/17/16 16:42	1
N-Nitrosodi-n-propylamine	ND		4.7	0.51	ug/L		06/16/16 07:48	06/17/16 16:42	1
N-Nitrosodiphenylamine	ND		4.7	0.48	ug/L		06/16/16 07:48	06/17/16 16:42	1
Naphthalene	ND		4.7	0.72	ug/L		06/16/16 07:48	06/17/16 16:42	1
Nitrobenzene	ND		4.7	0.27	ug/L		06/16/16 07:48	06/17/16 16:42	1
Pentachlorophenol	ND		9.4	2.1	ug/L		06/16/16 07:48	06/17/16 16:42	1
Phenanthrene	ND		4.7	0.42	ug/L		06/16/16 07:48	06/17/16 16:42	1
Phenol	ND		4.7	0.37	ug/L		06/16/16 07:48	06/17/16 16:42	1
Pyrene	ND		4.7	0.32	ug/L		06/16/16 07:48	06/17/16 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	85		46 - 120	06/16/16 07:48	06/17/16 16:42	1
Phenol-d5 (Surr)	48		16 - 120	06/16/16 07:48	06/17/16 16:42	1
p-Terphenyl-d14 (Surr)	100		67 - 150	06/16/16 07:48	06/17/16 16:42	1
2,4,6-Tribromophenol (Surr)	94		52 - 132	06/16/16 07:48	06/17/16 16:42	1
2-Fluorobiphenyl	82		48 - 120	06/16/16 07:48	06/17/16 16:42	1
2-Fluorophenol (Surr)	68		20 - 120	06/16/16 07:48	06/17/16 16:42	1

## Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.047	0.0086	ug/L		06/16/16 08:00	06/17/16 13:56	1
4,4'-DDE	ND		0.047	0.011	ug/L		06/16/16 08:00	06/17/16 13:56	1
4,4'-DDT	ND		0.047	0.010	ug/L		06/16/16 08:00	06/17/16 13:56	1
Aldrin	ND		0.047	0.0076	ug/L		06/16/16 08:00	06/17/16 13:56	1
alpha-BHC	ND		0.047	0.0072	ug/L		06/16/16 08:00	06/17/16 13:56	1
alpha-Chlordane	ND		0.047	0.014	ug/L		06/16/16 08:00	06/17/16 13:56	1
beta-BHC	ND		0.047	0.023	ug/L		06/16/16 08:00	06/17/16 13:56	1
delta-BHC	ND		0.047	0.0094	ug/L		06/16/16 08:00	06/17/16 13:56	1
Dieldrin	ND		0.047	0.0092	ug/L		06/16/16 08:00	06/17/16 13:56	1
Endosulfan I	ND		0.047	0.010	ug/L		06/16/16 08:00	06/17/16 13:56	1
Endosulfan II	ND		0.047	0.011	ug/L		06/16/16 08:00	06/17/16 13:56	1
Endosulfan sulfate	ND		0.047	0.015	ug/L		06/16/16 08:00	06/17/16 13:56	1
Endrin	ND		0.047	0.013	ug/L		06/16/16 08:00	06/17/16 13:56	1
Endrin aldehyde	ND		0.047	0.015	ug/L		06/16/16 08:00	06/17/16 13:56	1
Endrin ketone	ND		0.047	0.011	ug/L		06/16/16 08:00	06/17/16 13:56	1
gamma-BHC (Lindane)	ND		0.047	0.0075	ug/L		06/16/16 08:00	06/17/16 13:56	1
gamma-Chlordane	ND		0.047	0.010	ug/L		06/16/16 08:00	06/17/16 13:56	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-6**

**Lab Sample ID: 480-101666-5**

**Date Collected: 06/14/16 17:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.047	0.0080	ug/L		06/16/16 08:00	06/17/16 13:56	1
Heptachlor epoxide	ND		0.047	0.0069	ug/L		06/16/16 08:00	06/17/16 13:56	1
Methoxychlor	ND		0.047	0.013	ug/L		06/16/16 08:00	06/17/16 13:56	1
Toxaphene	ND		0.47	0.11	ug/L		06/16/16 08:00	06/17/16 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	35		20 - 120	06/16/16 08:00	06/17/16 13:56	1
DCB Decachlorobiphenyl	40		20 - 120	06/16/16 08:00	06/17/16 13:56	1
Tetrachloro-m-xylene	113		36 - 120	06/16/16 08:00	06/17/16 13:56	1
Tetrachloro-m-xylene	69		36 - 120	06/16/16 08:00	06/17/16 13:56	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 01:26	1
PCB-1221	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 01:26	1
PCB-1232	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 01:26	1
PCB-1242	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 01:26	1
PCB-1248	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 01:26	1
PCB-1254	ND		0.48	0.24	ug/L		06/16/16 07:53	06/17/16 01:26	1
PCB-1260	ND		0.48	0.24	ug/L		06/16/16 07:53	06/17/16 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		24 - 137	06/16/16 07:53	06/17/16 01:26	1
Tetrachloro-m-xylene	93		24 - 137	06/16/16 07:53	06/17/16 01:26	1
DCB Decachlorobiphenyl	56		19 - 125	06/16/16 07:53	06/17/16 01:26	1
DCB Decachlorobiphenyl	57		19 - 125	06/16/16 07:53	06/17/16 01:26	1

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.88	0.12	ug/L		06/15/16 15:50	06/17/16 01:24	1
Silvex (2,4,5-TP)	ND		0.88	0.088	ug/L		06/15/16 15:50	06/17/16 01:24	1
2,4-D	ND		0.88	0.30	ug/L		06/15/16 15:50	06/17/16 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	80		35 - 143	06/15/16 15:50	06/17/16 01:24	1
2,4-Dichlorophenylacetic acid	102		35 - 143	06/15/16 15:50	06/17/16 01:24	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>3.7</b>		0.20		mg/L		06/16/16 07:34	06/16/16 18:34	1
Antimony	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:34	1
Arsenic	ND		0.015		mg/L		06/16/16 07:34	06/16/16 18:34	1
<b>Barium</b>	<b>0.12</b>	<b>B</b>	0.0020		mg/L		06/16/16 07:34	06/16/16 18:34	1
Beryllium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 18:34	1
Cadmium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 18:34	1
<b>Calcium</b>	<b>142</b>		0.50		mg/L		06/16/16 07:34	06/16/16 18:34	1
<b>Chromium</b>	<b>0.0059</b>		0.0040		mg/L		06/16/16 07:34	06/16/16 18:34	1
Cobalt	ND		0.0040		mg/L		06/16/16 07:34	06/16/16 18:34	1
Copper	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:34	1
<b>Iron</b>	<b>3.8</b>		0.050		mg/L		06/16/16 07:34	06/16/16 18:34	1
<b>Lead</b>	<b>0.010</b>		0.010		mg/L		06/16/16 07:34	06/16/16 18:34	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-6**

**Lab Sample ID: 480-101666-5**

**Date Collected: 06/14/16 17:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	71.7		0.20		mg/L		06/16/16 07:34	06/16/16 18:34	1
Manganese	0.12		0.0030		mg/L		06/16/16 07:34	06/16/16 18:34	1
Nickel	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:34	1
Potassium	9.8		0.50		mg/L		06/16/16 07:34	06/16/16 18:34	1
Selenium	ND		0.025		mg/L		06/16/16 07:34	06/16/16 18:34	1
Silver	ND		0.0060		mg/L		06/16/16 07:34	06/16/16 18:34	1
Sodium	300		1.0		mg/L		06/16/16 07:34	06/16/16 18:34	1
Thallium	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:34	1
Vanadium	0.0055		0.0050		mg/L		06/16/16 07:34	06/16/16 18:34	1
Zinc	0.070		0.010		mg/L		06/16/16 07:34	06/16/16 18:34	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/16/16 06:55	06/16/16 11:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		06/16/16 10:12	06/17/16 09:16	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-9**

**Lab Sample ID: 480-101666-6**

**Date Collected: 06/14/16 12:20**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	2.0	1.6	ug/L			06/16/16 02:59	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			06/16/16 02:59	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			06/16/16 02:59	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			06/16/16 02:59	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			06/16/16 02:59	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			06/16/16 02:59	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			06/16/16 02:59	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			06/16/16 02:59	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			06/16/16 02:59	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			06/16/16 02:59	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			06/16/16 02:59	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			06/16/16 02:59	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			06/16/16 02:59	2
2-Butanone (MEK)	ND		20	2.6	ug/L			06/16/16 02:59	2
2-Hexanone	ND		10	2.5	ug/L			06/16/16 02:59	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			06/16/16 02:59	2
<b>Acetone</b>	<b>16</b>	<b>J</b>	20	6.0	ug/L			06/16/16 02:59	2
Benzene	ND		2.0	0.82	ug/L			06/16/16 02:59	2
Bromodichloromethane	ND		2.0	0.78	ug/L			06/16/16 02:59	2
Bromoform	ND		2.0	0.52	ug/L			06/16/16 02:59	2
Bromomethane	ND		2.0	1.4	ug/L			06/16/16 02:59	2
<b>Carbon disulfide</b>	<b>1.4</b>	<b>J</b>	2.0	0.38	ug/L			06/16/16 02:59	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			06/16/16 02:59	2
Chlorobenzene	ND		2.0	1.5	ug/L			06/16/16 02:59	2
Dibromochloromethane	ND		2.0	0.64	ug/L			06/16/16 02:59	2
Chloroethane	ND		2.0	0.64	ug/L			06/16/16 02:59	2
Chloroform	ND		2.0	0.68	ug/L			06/16/16 02:59	2
Chloromethane	ND		2.0	0.70	ug/L			06/16/16 02:59	2
<b>cis-1,2-Dichloroethene</b>	<b>1.8</b>	<b>J</b>	2.0	1.6	ug/L			06/16/16 02:59	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			06/16/16 02:59	2
Cyclohexane	ND		2.0	0.36	ug/L			06/16/16 02:59	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			06/16/16 02:59	2
Ethylbenzene	ND		2.0	1.5	ug/L			06/16/16 02:59	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			06/16/16 02:59	2
Isopropylbenzene	ND		2.0	1.6	ug/L			06/16/16 02:59	2
Methyl acetate	ND		5.0	2.6	ug/L			06/16/16 02:59	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			06/16/16 02:59	2
Methylcyclohexane	ND		2.0	0.32	ug/L			06/16/16 02:59	2
Methylene Chloride	ND		2.0	0.88	ug/L			06/16/16 02:59	2
<b>Styrene</b>	<b>3.3</b>		2.0	1.5	ug/L			06/16/16 02:59	2
<b>Tetrachloroethene</b>	<b>2500</b>	<b>E</b>	2.0	0.72	ug/L			06/16/16 02:59	2
Toluene	ND		2.0	1.0	ug/L			06/16/16 02:59	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			06/16/16 02:59	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			06/16/16 02:59	2
<b>Trichloroethene</b>	<b>7.0</b>		2.0	0.92	ug/L			06/16/16 02:59	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			06/16/16 02:59	2
Vinyl chloride	ND		2.0	1.8	ug/L			06/16/16 02:59	2
Xylenes, Total	ND		4.0	1.3	ug/L			06/16/16 02:59	2

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-9**

**Lab Sample ID: 480-101666-6**

**Date Collected: 06/14/16 12:20**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		71 - 126		06/16/16 02:59	2
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		06/16/16 02:59	2
4-Bromofluorobenzene (Surr)	112		73 - 120		06/16/16 02:59	2
Dibromofluoromethane (Surr)	92		60 - 140		06/16/16 02:59	2

**Method: 8260C - Volatile Organic Compounds by GC/MS - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		80	66	ug/L			06/16/16 23:59	80
1,1,2,2-Tetrachloroethane	ND		80	17	ug/L			06/16/16 23:59	80
1,1,2-Trichloroethane	ND		80	18	ug/L			06/16/16 23:59	80
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		80	25	ug/L			06/16/16 23:59	80
1,1-Dichloroethane	ND		80	30	ug/L			06/16/16 23:59	80
1,1-Dichloroethene	ND		80	23	ug/L			06/16/16 23:59	80
1,2,4-Trichlorobenzene	ND		80	33	ug/L			06/16/16 23:59	80
1,2-Dibromo-3-Chloropropane	ND		80	31	ug/L			06/16/16 23:59	80
1,2-Dichlorobenzene	ND		80	63	ug/L			06/16/16 23:59	80
1,2-Dichloroethane	ND		80	17	ug/L			06/16/16 23:59	80
1,2-Dichloropropane	ND		80	58	ug/L			06/16/16 23:59	80
1,3-Dichlorobenzene	ND		80	62	ug/L			06/16/16 23:59	80
1,4-Dichlorobenzene	ND		80	67	ug/L			06/16/16 23:59	80
2-Butanone (MEK)	ND		800	110	ug/L			06/16/16 23:59	80
2-Hexanone	ND		400	99	ug/L			06/16/16 23:59	80
4-Methyl-2-pentanone (MIBK)	ND		400	170	ug/L			06/16/16 23:59	80
Acetone	ND		800	240	ug/L			06/16/16 23:59	80
Benzene	ND		80	33	ug/L			06/16/16 23:59	80
Bromodichloromethane	ND		80	31	ug/L			06/16/16 23:59	80
Bromoform	ND		80	21	ug/L			06/16/16 23:59	80
Bromomethane	ND		80	55	ug/L			06/16/16 23:59	80
Carbon disulfide	ND		80	15	ug/L			06/16/16 23:59	80
Carbon tetrachloride	ND		80	22	ug/L			06/16/16 23:59	80
Chlorobenzene	ND		80	60	ug/L			06/16/16 23:59	80
Dibromochloromethane	ND		80	26	ug/L			06/16/16 23:59	80
Chloroethane	ND		80	26	ug/L			06/16/16 23:59	80
Chloroform	ND		80	27	ug/L			06/16/16 23:59	80
Chloromethane	ND		80	28	ug/L			06/16/16 23:59	80
cis-1,2-Dichloroethene	ND		80	65	ug/L			06/16/16 23:59	80
cis-1,3-Dichloropropene	ND		80	29	ug/L			06/16/16 23:59	80
Cyclohexane	ND		80	14	ug/L			06/16/16 23:59	80
Dichlorodifluoromethane	ND		80	54	ug/L			06/16/16 23:59	80
Ethylbenzene	ND		80	59	ug/L			06/16/16 23:59	80
1,2-Dibromoethane	ND		80	58	ug/L			06/16/16 23:59	80
Isopropylbenzene	ND		80	63	ug/L			06/16/16 23:59	80
Methyl acetate	ND		200	100	ug/L			06/16/16 23:59	80
Methyl tert-butyl ether	ND		80	13	ug/L			06/16/16 23:59	80
Methylcyclohexane	ND		80	13	ug/L			06/16/16 23:59	80
Methylene Chloride	ND		80	35	ug/L			06/16/16 23:59	80
Styrene	ND		80	58	ug/L			06/16/16 23:59	80
<b>Tetrachloroethene</b>	<b>4200</b>		80	29	ug/L			06/16/16 23:59	80
Toluene	ND		80	41	ug/L			06/16/16 23:59	80
trans-1,2-Dichloroethene	ND		80	72	ug/L			06/16/16 23:59	80

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-9**

**Lab Sample ID: 480-101666-6**

**Date Collected: 06/14/16 12:20**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		80	30	ug/L			06/16/16 23:59	80
Trichloroethene	ND		80	37	ug/L			06/16/16 23:59	80
Trichlorofluoromethane	ND		80	70	ug/L			06/16/16 23:59	80
Vinyl chloride	ND		80	72	ug/L			06/16/16 23:59	80
Xylenes, Total	ND		160	53	ug/L			06/16/16 23:59	80

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		71 - 126		06/16/16 23:59	80
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		06/16/16 23:59	80
4-Bromofluorobenzene (Surr)	93		73 - 120		06/16/16 23:59	80
Dibromofluoromethane (Surr)	108		60 - 140		06/16/16 23:59	80

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4.7	0.61	ug/L		06/16/16 07:48	06/17/16 17:10	1
bis (2-chloroisopropyl) ether	ND		4.7	0.49	ug/L		06/16/16 07:48	06/17/16 17:10	1
2,4,5-Trichlorophenol	ND		4.7	0.45	ug/L		06/16/16 07:48	06/17/16 17:10	1
2,4,6-Trichlorophenol	ND		4.7	0.57	ug/L		06/16/16 07:48	06/17/16 17:10	1
2,4-Dichlorophenol	ND		4.7	0.48	ug/L		06/16/16 07:48	06/17/16 17:10	1
2,4-Dimethylphenol	ND		4.7	0.47	ug/L		06/16/16 07:48	06/17/16 17:10	1
2,4-Dinitrophenol	ND		9.3	2.1	ug/L		06/16/16 07:48	06/17/16 17:10	1
2,4-Dinitrotoluene	ND		4.7	0.42	ug/L		06/16/16 07:48	06/17/16 17:10	1
2,6-Dinitrotoluene	ND		4.7	0.37	ug/L		06/16/16 07:48	06/17/16 17:10	1
2-Chloronaphthalene	ND		4.7	0.43	ug/L		06/16/16 07:48	06/17/16 17:10	1
2-Chlorophenol	ND		4.7	0.49	ug/L		06/16/16 07:48	06/17/16 17:10	1
2-Methylphenol	ND		4.7	0.37	ug/L		06/16/16 07:48	06/17/16 17:10	1
2-Methylnaphthalene	ND		4.7	0.56	ug/L		06/16/16 07:48	06/17/16 17:10	1
2-Nitroaniline	ND		9.3	0.39	ug/L		06/16/16 07:48	06/17/16 17:10	1
2-Nitrophenol	ND		4.7	0.45	ug/L		06/16/16 07:48	06/17/16 17:10	1
3,3'-Dichlorobenzidine	ND		4.7	0.37	ug/L		06/16/16 07:48	06/17/16 17:10	1
3-Nitroaniline	ND		9.3	0.45	ug/L		06/16/16 07:48	06/17/16 17:10	1
4,6-Dinitro-2-methylphenol	ND		9.3	2.1	ug/L		06/16/16 07:48	06/17/16 17:10	1
4-Bromophenyl phenyl ether	ND		4.7	0.42	ug/L		06/16/16 07:48	06/17/16 17:10	1
4-Chloro-3-methylphenol	ND		4.7	0.42	ug/L		06/16/16 07:48	06/17/16 17:10	1
4-Chloroaniline	ND		4.7	0.55	ug/L		06/16/16 07:48	06/17/16 17:10	1
4-Chlorophenyl phenyl ether	ND		4.7	0.33	ug/L		06/16/16 07:48	06/17/16 17:10	1
4-Methylphenol	ND		9.3	0.34	ug/L		06/16/16 07:48	06/17/16 17:10	1
4-Nitroaniline	ND		9.3	0.23	ug/L		06/16/16 07:48	06/17/16 17:10	1
4-Nitrophenol	ND		9.3	1.4	ug/L		06/16/16 07:48	06/17/16 17:10	1
Acenaphthene	ND		4.7	0.38	ug/L		06/16/16 07:48	06/17/16 17:10	1
Acenaphthylene	ND		4.7	0.35	ug/L		06/16/16 07:48	06/17/16 17:10	1
Acetophenone	0.50	J	4.7	0.50	ug/L		06/16/16 07:48	06/17/16 17:10	1
Anthracene	ND		4.7	0.26	ug/L		06/16/16 07:48	06/17/16 17:10	1
Atrazine	ND		4.7	0.43	ug/L		06/16/16 07:48	06/17/16 17:10	1
Benzaldehyde	ND		4.7	0.25	ug/L		06/16/16 07:48	06/17/16 17:10	1
Benzo[a]anthracene	ND		4.7	0.34	ug/L		06/16/16 07:48	06/17/16 17:10	1
Benzo[a]pyrene	0.48	J	4.7	0.44	ug/L		06/16/16 07:48	06/17/16 17:10	1
Benzo[b]fluoranthene	0.71	J	4.7	0.32	ug/L		06/16/16 07:48	06/17/16 17:10	1
Benzo[g,h,i]perylene	0.50	J	4.7	0.33	ug/L		06/16/16 07:48	06/17/16 17:10	1
Benzo[k]fluoranthene	ND		4.7	0.68	ug/L		06/16/16 07:48	06/17/16 17:10	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-9**

**Lab Sample ID: 480-101666-6**

**Date Collected: 06/14/16 12:20**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		4.7	0.33	ug/L		06/16/16 07:48	06/17/16 17:10	1
Bis(2-chloroethyl)ether	ND		4.7	0.37	ug/L		06/16/16 07:48	06/17/16 17:10	1
Bis(2-ethylhexyl) phthalate	ND		4.7	2.1	ug/L		06/16/16 07:48	06/17/16 17:10	1
Butyl benzyl phthalate	ND		4.7	0.93	ug/L		06/16/16 07:48	06/17/16 17:10	1
Caprolactam	ND		4.7	2.1	ug/L		06/16/16 07:48	06/17/16 17:10	1
Carbazole	ND		4.7	0.28	ug/L		06/16/16 07:48	06/17/16 17:10	1
<b>Chrysene</b>	<b>0.56</b>	<b>J</b>	4.7	0.31	ug/L		06/16/16 07:48	06/17/16 17:10	1
Dibenz(a,h)anthracene	ND		4.7	0.39	ug/L		06/16/16 07:48	06/17/16 17:10	1
Di-n-butyl phthalate	ND		4.7	0.29	ug/L		06/16/16 07:48	06/17/16 17:10	1
Di-n-octyl phthalate	ND		4.7	0.44	ug/L		06/16/16 07:48	06/17/16 17:10	1
Dibenzofuran	ND		9.3	0.48	ug/L		06/16/16 07:48	06/17/16 17:10	1
Diethyl phthalate	ND		4.7	0.21	ug/L		06/16/16 07:48	06/17/16 17:10	1
Dimethyl phthalate	ND		4.7	0.34	ug/L		06/16/16 07:48	06/17/16 17:10	1
<b>Fluoranthene</b>	<b>1.1</b>	<b>J</b>	4.7	0.37	ug/L		06/16/16 07:48	06/17/16 17:10	1
Fluorene	ND		4.7	0.34	ug/L		06/16/16 07:48	06/17/16 17:10	1
Hexachlorobenzene	ND		4.7	0.48	ug/L		06/16/16 07:48	06/17/16 17:10	1
Hexachlorobutadiene	ND		4.7	0.64	ug/L		06/16/16 07:48	06/17/16 17:10	1
Hexachlorocyclopentadiene	ND		4.7	0.55	ug/L		06/16/16 07:48	06/17/16 17:10	1
Hexachloroethane	ND		4.7	0.55	ug/L		06/16/16 07:48	06/17/16 17:10	1
Indeno[1,2,3-cd]pyrene	ND		4.7	0.44	ug/L		06/16/16 07:48	06/17/16 17:10	1
Isophorone	ND		4.7	0.40	ug/L		06/16/16 07:48	06/17/16 17:10	1
N-Nitrosodi-n-propylamine	ND		4.7	0.50	ug/L		06/16/16 07:48	06/17/16 17:10	1
N-Nitrosodiphenylamine	ND		4.7	0.48	ug/L		06/16/16 07:48	06/17/16 17:10	1
Naphthalene	ND		4.7	0.71	ug/L		06/16/16 07:48	06/17/16 17:10	1
Nitrobenzene	ND		4.7	0.27	ug/L		06/16/16 07:48	06/17/16 17:10	1
Pentachlorophenol	ND		9.3	2.1	ug/L		06/16/16 07:48	06/17/16 17:10	1
Phenanthrene	ND		4.7	0.41	ug/L		06/16/16 07:48	06/17/16 17:10	1
Phenol	ND		4.7	0.36	ug/L		06/16/16 07:48	06/17/16 17:10	1
<b>Pyrene</b>	<b>0.84</b>	<b>J</b>	4.7	0.32	ug/L		06/16/16 07:48	06/17/16 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	67		46 - 120	06/16/16 07:48	06/17/16 17:10	1
Phenol-d5 (Surr)	37		16 - 120	06/16/16 07:48	06/17/16 17:10	1
p-Terphenyl-d14 (Surr)	85		67 - 150	06/16/16 07:48	06/17/16 17:10	1
2,4,6-Tribromophenol (Surr)	79		52 - 132	06/16/16 07:48	06/17/16 17:10	1
2-Fluorobiphenyl	67		48 - 120	06/16/16 07:48	06/17/16 17:10	1
2-Fluorophenol (Surr)	49		20 - 120	06/16/16 07:48	06/17/16 17:10	1

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.24	0.043	ug/L		06/16/16 08:00	06/17/16 14:16	5
4,4'-DDE	ND		0.24	0.055	ug/L		06/16/16 08:00	06/17/16 14:16	5
4,4'-DDT	ND		0.24	0.052	ug/L		06/16/16 08:00	06/17/16 14:16	5
Aldrin	ND		0.24	0.038	ug/L		06/16/16 08:00	06/17/16 14:16	5
alpha-BHC	ND		0.24	0.036	ug/L		06/16/16 08:00	06/17/16 14:16	5
alpha-Chlordane	ND		0.24	0.070	ug/L		06/16/16 08:00	06/17/16 14:16	5
beta-BHC	ND		0.24	0.12	ug/L		06/16/16 08:00	06/17/16 14:16	5
delta-BHC	ND		0.24	0.047	ug/L		06/16/16 08:00	06/17/16 14:16	5
Dieldrin	ND		0.24	0.046	ug/L		06/16/16 08:00	06/17/16 14:16	5
Endosulfan I	ND		0.24	0.052	ug/L		06/16/16 08:00	06/17/16 14:16	5

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-9**

**Lab Sample ID: 480-101666-6**

**Date Collected: 06/14/16 12:20**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	ND		0.24	0.056	ug/L		06/16/16 08:00	06/17/16 14:16	5
Endosulfan sulfate	ND		0.24	0.074	ug/L		06/16/16 08:00	06/17/16 14:16	5
Endrin	ND		0.24	0.065	ug/L		06/16/16 08:00	06/17/16 14:16	5
Endrin aldehyde	ND		0.24	0.077	ug/L		06/16/16 08:00	06/17/16 14:16	5
Endrin ketone	ND		0.24	0.056	ug/L		06/16/16 08:00	06/17/16 14:16	5
gamma-BHC (Lindane)	ND		0.24	0.038	ug/L		06/16/16 08:00	06/17/16 14:16	5
gamma-Chlordane	ND		0.24	0.052	ug/L		06/16/16 08:00	06/17/16 14:16	5
Heptachlor	ND		0.24	0.040	ug/L		06/16/16 08:00	06/17/16 14:16	5
Heptachlor epoxide	ND		0.24	0.035	ug/L		06/16/16 08:00	06/17/16 14:16	5
Methoxychlor	ND		0.24	0.066	ug/L		06/16/16 08:00	06/17/16 14:16	5
Toxaphene	ND		2.4	0.56	ug/L		06/16/16 08:00	06/17/16 14:16	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	40		20 - 120				06/16/16 08:00	06/17/16 14:16	5
DCB Decachlorobiphenyl	53		20 - 120				06/16/16 08:00	06/17/16 14:16	5
Tetrachloro-m-xylene	323	X	36 - 120				06/16/16 08:00	06/17/16 14:16	5
Tetrachloro-m-xylene	117		36 - 120				06/16/16 08:00	06/17/16 14:16	5

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.47	0.17	ug/L		06/16/16 07:53	06/17/16 01:41	1
PCB-1221	ND		0.47	0.17	ug/L		06/16/16 07:53	06/17/16 01:41	1
PCB-1232	ND		0.47	0.17	ug/L		06/16/16 07:53	06/17/16 01:41	1
PCB-1242	ND		0.47	0.17	ug/L		06/16/16 07:53	06/17/16 01:41	1
PCB-1248	ND		0.47	0.17	ug/L		06/16/16 07:53	06/17/16 01:41	1
PCB-1254	ND		0.47	0.23	ug/L		06/16/16 07:53	06/17/16 01:41	1
PCB-1260	ND		0.47	0.23	ug/L		06/16/16 07:53	06/17/16 01:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	95		24 - 137				06/16/16 07:53	06/17/16 01:41	1
Tetrachloro-m-xylene	95		24 - 137				06/16/16 07:53	06/17/16 01:41	1
DCB Decachlorobiphenyl	50		19 - 125				06/16/16 07:53	06/17/16 01:41	1
DCB Decachlorobiphenyl	51		19 - 125				06/16/16 07:53	06/17/16 01:41	1

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.065	ug/L		06/15/16 15:50	06/17/16 01:54	1
Silvex (2,4,5-TP)	ND		0.48	0.048	ug/L		06/15/16 15:50	06/17/16 01:54	1
2,4-D	ND		0.48	0.16	ug/L		06/15/16 15:50	06/17/16 01:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4-Dichlorophenylacetic acid	68		35 - 143				06/15/16 15:50	06/17/16 01:54	1
2,4-Dichlorophenylacetic acid	69		35 - 143				06/15/16 15:50	06/17/16 01:54	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.43		0.20		mg/L		06/16/16 07:34	06/16/16 18:37	1
Antimony	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:37	1
Arsenic	ND		0.015		mg/L		06/16/16 07:34	06/16/16 18:37	1
Barium	0.11	B	0.0020		mg/L		06/16/16 07:34	06/16/16 18:37	1
Beryllium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 18:37	1

TestAmerica Buffalo



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-9**

**Lab Sample ID: 480-101666-6**

**Date Collected: 06/14/16 12:20**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 18:37	1
<b>Calcium</b>	<b>104</b>		0.50		mg/L		06/16/16 07:34	06/16/16 18:37	1
Chromium	ND		0.0040		mg/L		06/16/16 07:34	06/16/16 18:37	1
Cobalt	ND		0.0040		mg/L		06/16/16 07:34	06/16/16 18:37	1
Copper	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:37	1
<b>Iron</b>	<b>0.41</b>		0.050		mg/L		06/16/16 07:34	06/16/16 18:37	1
Lead	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:37	1
<b>Magnesium</b>	<b>50.3</b>		0.20		mg/L		06/16/16 07:34	06/16/16 18:37	1
<b>Manganese</b>	<b>0.12</b>		0.0030		mg/L		06/16/16 07:34	06/16/16 18:37	1
Nickel	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:37	1
<b>Potassium</b>	<b>4.0</b>		0.50		mg/L		06/16/16 07:34	06/16/16 18:37	1
Selenium	ND		0.025		mg/L		06/16/16 07:34	06/16/16 18:37	1
Silver	ND		0.0060		mg/L		06/16/16 07:34	06/16/16 18:37	1
<b>Sodium</b>	<b>84.5</b>		1.0		mg/L		06/16/16 07:34	06/16/16 18:37	1
Thallium	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:37	1
Vanadium	ND		0.0050		mg/L		06/16/16 07:34	06/16/16 18:37	1
<b>Zinc</b>	<b>0.076</b>		0.010		mg/L		06/16/16 07:34	06/16/16 18:37	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/16/16 06:55	06/16/16 11:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		06/16/16 10:12	06/17/16 09:20	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-7**

**Lab Sample ID: 480-101666-7**

**Date Collected: 06/14/16 14:15**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	1.0	0.82	ug/L			06/16/16 03:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/16/16 03:26	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/16/16 03:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/16/16 03:26	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/16/16 03:26	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/16/16 03:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/16/16 03:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/16/16 03:26	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/16/16 03:26	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/16/16 03:26	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/16/16 03:26	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/16/16 03:26	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/16/16 03:26	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/16/16 03:26	1
2-Hexanone	ND	F1	5.0	1.2	ug/L			06/16/16 03:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/16/16 03:26	1
<b>Acetone</b>	<b>14</b>		10	3.0	ug/L			06/16/16 03:26	1
Benzene	ND		1.0	0.41	ug/L			06/16/16 03:26	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/16/16 03:26	1
Bromoform	ND		1.0	0.26	ug/L			06/16/16 03:26	1
Bromomethane	ND		1.0	0.69	ug/L			06/16/16 03:26	1
<b>Carbon disulfide</b>	<b>0.42</b>	<b>J</b>	1.0	0.19	ug/L			06/16/16 03:26	1
Carbon tetrachloride	ND	F1	1.0	0.27	ug/L			06/16/16 03:26	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/16/16 03:26	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/16/16 03:26	1
Chloroethane	ND		1.0	0.32	ug/L			06/16/16 03:26	1
Chloroform	ND		1.0	0.34	ug/L			06/16/16 03:26	1
Chloromethane	ND		1.0	0.35	ug/L			06/16/16 03:26	1
<b>cis-1,2-Dichloroethene</b>	<b>36</b>	<b>F1</b>	1.0	0.81	ug/L			06/16/16 03:26	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/16/16 03:26	1
Cyclohexane	ND		1.0	0.18	ug/L			06/16/16 03:26	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/16/16 03:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/16/16 03:26	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/16/16 03:26	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/16/16 03:26	1
Methyl acetate	ND		2.5	1.3	ug/L			06/16/16 03:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/16/16 03:26	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/16/16 03:26	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/16/16 03:26	1
Styrene	ND		1.0	0.73	ug/L			06/16/16 03:26	1
<b>Tetrachloroethene</b>	<b>0.54</b>	<b>J</b>	1.0	0.36	ug/L			06/16/16 03:26	1
Toluene	ND		1.0	0.51	ug/L			06/16/16 03:26	1
<b>trans-1,2-Dichloroethene</b>	<b>100</b>	<b>F1</b>	1.0	0.90	ug/L			06/16/16 03:26	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/16/16 03:26	1
<b>Trichloroethene</b>	<b>89</b>	<b>F1</b>	1.0	0.46	ug/L			06/16/16 03:26	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/16/16 03:26	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/16/16 03:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/16/16 03:26	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-7**

**Lab Sample ID: 480-101666-7**

**Date Collected: 06/14/16 14:15**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		71 - 126		06/16/16 03:26	1
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		06/16/16 03:26	1
4-Bromofluorobenzene (Surr)	114		73 - 120		06/16/16 03:26	1
Dibromofluoromethane (Surr)	95		60 - 140		06/16/16 03:26	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4.8	0.62	ug/L		06/16/16 07:48	06/16/16 21:14	1
bis (2-chloroisopropyl) ether	ND		4.8	0.49	ug/L		06/16/16 07:48	06/16/16 21:14	1
2,4,5-Trichlorophenol	ND		4.8	0.46	ug/L		06/16/16 07:48	06/16/16 21:14	1
2,4,6-Trichlorophenol	ND		4.8	0.58	ug/L		06/16/16 07:48	06/16/16 21:14	1
2,4-Dichlorophenol	ND		4.8	0.49	ug/L		06/16/16 07:48	06/16/16 21:14	1
2,4-Dimethylphenol	ND		4.8	0.48	ug/L		06/16/16 07:48	06/16/16 21:14	1
2,4-Dinitrophenol	ND		9.5	2.1	ug/L		06/16/16 07:48	06/16/16 21:14	1
2,4-Dinitrotoluene	ND		4.8	0.43	ug/L		06/16/16 07:48	06/16/16 21:14	1
2,6-Dinitrotoluene	ND		4.8	0.38	ug/L		06/16/16 07:48	06/16/16 21:14	1
2-Chloronaphthalene	ND		4.8	0.44	ug/L		06/16/16 07:48	06/16/16 21:14	1
2-Chlorophenol	ND		4.8	0.50	ug/L		06/16/16 07:48	06/16/16 21:14	1
2-Methylphenol	ND		4.8	0.38	ug/L		06/16/16 07:48	06/16/16 21:14	1
2-Methylnaphthalene	ND		4.8	0.57	ug/L		06/16/16 07:48	06/16/16 21:14	1
2-Nitroaniline	ND		9.5	0.40	ug/L		06/16/16 07:48	06/16/16 21:14	1
2-Nitrophenol	ND		4.8	0.46	ug/L		06/16/16 07:48	06/16/16 21:14	1
3,3'-Dichlorobenzidine	ND	F1	4.8	0.38	ug/L		06/16/16 07:48	06/16/16 21:14	1
3-Nitroaniline	ND	F1	9.5	0.46	ug/L		06/16/16 07:48	06/16/16 21:14	1
4,6-Dinitro-2-methylphenol	ND		9.5	2.1	ug/L		06/16/16 07:48	06/16/16 21:14	1
4-Bromophenyl phenyl ether	ND		4.8	0.43	ug/L		06/16/16 07:48	06/16/16 21:14	1
4-Chloro-3-methylphenol	ND		4.8	0.43	ug/L		06/16/16 07:48	06/16/16 21:14	1
4-Chloroaniline	ND	F1	4.8	0.56	ug/L		06/16/16 07:48	06/16/16 21:14	1
4-Chlorophenyl phenyl ether	ND		4.8	0.33	ug/L		06/16/16 07:48	06/16/16 21:14	1
4-Methylphenol	ND		9.5	0.34	ug/L		06/16/16 07:48	06/16/16 21:14	1
4-Nitroaniline	ND	F2 F1	9.5	0.24	ug/L		06/16/16 07:48	06/16/16 21:14	1
4-Nitrophenol	ND		9.5	1.4	ug/L		06/16/16 07:48	06/16/16 21:14	1
Acenaphthene	ND		4.8	0.39	ug/L		06/16/16 07:48	06/16/16 21:14	1
Acenaphthylene	ND		4.8	0.36	ug/L		06/16/16 07:48	06/16/16 21:14	1
Acetophenone	ND		4.8	0.51	ug/L		06/16/16 07:48	06/16/16 21:14	1
Anthracene	ND		4.8	0.27	ug/L		06/16/16 07:48	06/16/16 21:14	1
Atrazine	ND		4.8	0.44	ug/L		06/16/16 07:48	06/16/16 21:14	1
Benzaldehyde	ND		4.8	0.25	ug/L		06/16/16 07:48	06/16/16 21:14	1
Benzo[a]anthracene	ND		4.8	0.34	ug/L		06/16/16 07:48	06/16/16 21:14	1
Benzo[a]pyrene	ND		4.8	0.45	ug/L		06/16/16 07:48	06/16/16 21:14	1
Benzo[b]fluoranthene	ND		4.8	0.32	ug/L		06/16/16 07:48	06/16/16 21:14	1
Benzo[g,h,i]perylene	ND		4.8	0.33	ug/L		06/16/16 07:48	06/16/16 21:14	1
Benzo[k]fluoranthene	ND		4.8	0.69	ug/L		06/16/16 07:48	06/16/16 21:14	1
Bis(2-chloroethoxy)methane	ND		4.8	0.33	ug/L		06/16/16 07:48	06/16/16 21:14	1
Bis(2-chloroethyl)ether	ND		4.8	0.38	ug/L		06/16/16 07:48	06/16/16 21:14	1
Bis(2-ethylhexyl) phthalate	ND		4.8	2.1	ug/L		06/16/16 07:48	06/16/16 21:14	1
Butyl benzyl phthalate	ND		4.8	0.95	ug/L		06/16/16 07:48	06/16/16 21:14	1
Caprolactam	ND		4.8	2.1	ug/L		06/16/16 07:48	06/16/16 21:14	1
Carbazole	ND		4.8	0.29	ug/L		06/16/16 07:48	06/16/16 21:14	1
Chrysene	ND		4.8	0.31	ug/L		06/16/16 07:48	06/16/16 21:14	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-7**

**Lab Sample ID: 480-101666-7**

**Date Collected: 06/14/16 14:15**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		4.8	0.40	ug/L		06/16/16 07:48	06/16/16 21:14	1
Di-n-butyl phthalate	ND		4.8	0.30	ug/L		06/16/16 07:48	06/16/16 21:14	1
Di-n-octyl phthalate	ND		4.8	0.45	ug/L		06/16/16 07:48	06/16/16 21:14	1
Dibenzofuran	ND		9.5	0.49	ug/L		06/16/16 07:48	06/16/16 21:14	1
Diethyl phthalate	ND		4.8	0.21	ug/L		06/16/16 07:48	06/16/16 21:14	1
Dimethyl phthalate	ND		4.8	0.34	ug/L		06/16/16 07:48	06/16/16 21:14	1
Fluoranthene	ND		4.8	0.38	ug/L		06/16/16 07:48	06/16/16 21:14	1
Fluorene	ND		4.8	0.34	ug/L		06/16/16 07:48	06/16/16 21:14	1
Hexachlorobenzene	ND		4.8	0.49	ug/L		06/16/16 07:48	06/16/16 21:14	1
Hexachlorobutadiene	ND		4.8	0.65	ug/L		06/16/16 07:48	06/16/16 21:14	1
Hexachlorocyclopentadiene	ND		4.8	0.56	ug/L		06/16/16 07:48	06/16/16 21:14	1
Hexachloroethane	ND		4.8	0.56	ug/L		06/16/16 07:48	06/16/16 21:14	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.45	ug/L		06/16/16 07:48	06/16/16 21:14	1
Isophorone	ND		4.8	0.41	ug/L		06/16/16 07:48	06/16/16 21:14	1
N-Nitrosodi-n-propylamine	ND		4.8	0.51	ug/L		06/16/16 07:48	06/16/16 21:14	1
N-Nitrosodiphenylamine	ND		4.8	0.49	ug/L		06/16/16 07:48	06/16/16 21:14	1
Naphthalene	ND		4.8	0.72	ug/L		06/16/16 07:48	06/16/16 21:14	1
Nitrobenzene	ND		4.8	0.28	ug/L		06/16/16 07:48	06/16/16 21:14	1
Pentachlorophenol	ND		9.5	2.1	ug/L		06/16/16 07:48	06/16/16 21:14	1
<b>Phenanthrene</b>	<b>0.75</b>	<b>J</b>	4.8	0.42	ug/L		06/16/16 07:48	06/16/16 21:14	1
Phenol	ND		4.8	0.37	ug/L		06/16/16 07:48	06/16/16 21:14	1
Pyrene	ND		4.8	0.32	ug/L		06/16/16 07:48	06/16/16 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	77		46 - 120	06/16/16 07:48	06/16/16 21:14	1
Phenol-d5 (Surr)	41		16 - 120	06/16/16 07:48	06/16/16 21:14	1
p-Terphenyl-d14 (Surr)	89		67 - 150	06/16/16 07:48	06/16/16 21:14	1
2,4,6-Tribromophenol (Surr)	83		52 - 132	06/16/16 07:48	06/16/16 21:14	1
2-Fluorobiphenyl	74		48 - 120	06/16/16 07:48	06/16/16 21:14	1
2-Fluorophenol (Surr)	58		20 - 120	06/16/16 07:48	06/16/16 21:14	1

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.047	0.0087	ug/L		06/16/16 08:00	06/17/16 14:36	1
4,4'-DDE	ND		0.047	0.011	ug/L		06/16/16 08:00	06/17/16 14:36	1
4,4'-DDT	ND		0.047	0.010	ug/L		06/16/16 08:00	06/17/16 14:36	1
Aldrin	ND		0.047	0.0077	ug/L		06/16/16 08:00	06/17/16 14:36	1
alpha-BHC	ND		0.047	0.0073	ug/L		06/16/16 08:00	06/17/16 14:36	1
alpha-Chlordane	ND		0.047	0.014	ug/L		06/16/16 08:00	06/17/16 14:36	1
beta-BHC	ND		0.047	0.023	ug/L		06/16/16 08:00	06/17/16 14:36	1
delta-BHC	ND		0.047	0.0095	ug/L		06/16/16 08:00	06/17/16 14:36	1
Dieldrin	ND		0.047	0.0093	ug/L		06/16/16 08:00	06/17/16 14:36	1
Endosulfan I	ND		0.047	0.010	ug/L		06/16/16 08:00	06/17/16 14:36	1
Endosulfan II	ND		0.047	0.011	ug/L		06/16/16 08:00	06/17/16 14:36	1
Endosulfan sulfate	ND		0.047	0.015	ug/L		06/16/16 08:00	06/17/16 14:36	1
Endrin	ND		0.047	0.013	ug/L		06/16/16 08:00	06/17/16 14:36	1
Endrin aldehyde	ND		0.047	0.015	ug/L		06/16/16 08:00	06/17/16 14:36	1
Endrin ketone	ND		0.047	0.011	ug/L		06/16/16 08:00	06/17/16 14:36	1
gamma-BHC (Lindane)	ND		0.047	0.0076	ug/L		06/16/16 08:00	06/17/16 14:36	1
gamma-Chlordane	ND		0.047	0.010	ug/L		06/16/16 08:00	06/17/16 14:36	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-7**

**Lab Sample ID: 480-101666-7**

**Date Collected: 06/14/16 14:15**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.047	0.0080	ug/L		06/16/16 08:00	06/17/16 14:36	1
Heptachlor epoxide	ND		0.047	0.0070	ug/L		06/16/16 08:00	06/17/16 14:36	1
Methoxychlor	ND		0.047	0.013	ug/L		06/16/16 08:00	06/17/16 14:36	1
Toxaphene	ND		0.47	0.11	ug/L		06/16/16 08:00	06/17/16 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	42		20 - 120	06/16/16 08:00	06/17/16 14:36	1
DCB Decachlorobiphenyl	61		20 - 120	06/16/16 08:00	06/17/16 14:36	1
Tetrachloro-m-xylene	122	X	36 - 120	06/16/16 08:00	06/17/16 14:36	1
Tetrachloro-m-xylene	76		36 - 120	06/16/16 08:00	06/17/16 14:36	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.47	0.17	ug/L		06/16/16 07:53	06/17/16 01:57	1
PCB-1221	ND		0.47	0.17	ug/L		06/16/16 07:53	06/17/16 01:57	1
PCB-1232	ND		0.47	0.17	ug/L		06/16/16 07:53	06/17/16 01:57	1
PCB-1242	ND		0.47	0.17	ug/L		06/16/16 07:53	06/17/16 01:57	1
PCB-1248	ND		0.47	0.17	ug/L		06/16/16 07:53	06/17/16 01:57	1
PCB-1254	ND		0.47	0.24	ug/L		06/16/16 07:53	06/17/16 01:57	1
PCB-1260	ND		0.47	0.24	ug/L		06/16/16 07:53	06/17/16 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		24 - 137	06/16/16 07:53	06/17/16 01:57	1
Tetrachloro-m-xylene	85		24 - 137	06/16/16 07:53	06/17/16 01:57	1
DCB Decachlorobiphenyl	55		19 - 125	06/16/16 07:53	06/17/16 01:57	1
DCB Decachlorobiphenyl	55		19 - 125	06/16/16 07:53	06/17/16 01:57	1

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.14	ug/L		06/15/16 15:50	06/17/16 11:40	1
Silvex (2,4,5-TP)	ND		1.0	0.10	ug/L		06/15/16 15:50	06/17/16 11:40	1
2,4-D	ND		1.0	0.34	ug/L		06/15/16 15:50	06/17/16 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	86		35 - 143	06/15/16 15:50	06/17/16 11:40	1
2,4-Dichlorophenylacetic acid	98		35 - 143	06/15/16 15:50	06/17/16 11:40	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>1.8</b>		0.20		mg/L		06/16/16 07:34	06/16/16 18:41	1
Antimony	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:41	1
Arsenic	ND		0.015		mg/L		06/16/16 07:34	06/16/16 18:41	1
<b>Barium</b>	<b>0.18</b>	<b>F2 F1 B</b>	0.0020		mg/L		06/16/16 07:34	06/16/16 18:41	1
Beryllium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 18:41	1
Cadmium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 18:41	1
<b>Calcium</b>	<b>224</b>		0.50		mg/L		06/16/16 07:34	06/16/16 18:41	1
Chromium	ND		0.0040		mg/L		06/16/16 07:34	06/16/16 18:41	1
Cobalt	ND		0.0040		mg/L		06/16/16 07:34	06/16/16 18:41	1
Copper	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:41	1
<b>Iron</b>	<b>2.1</b>		0.050		mg/L		06/16/16 07:34	06/16/16 18:41	1
Lead	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:41	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-7**

**Lab Sample ID: 480-101666-7**

**Date Collected: 06/14/16 14:15**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	103		0.20		mg/L		06/16/16 07:34	06/16/16 18:41	1
Manganese	0.14		0.0030		mg/L		06/16/16 07:34	06/16/16 18:41	1
Nickel	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:41	1
Potassium	8.7		0.50		mg/L		06/16/16 07:34	06/16/16 18:41	1
Selenium	ND		0.025		mg/L		06/16/16 07:34	06/16/16 18:41	1
Silver	ND		0.0060		mg/L		06/16/16 07:34	06/16/16 18:41	1
Sodium	78.6		1.0		mg/L		06/16/16 07:34	06/16/16 18:41	1
Thallium	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:41	1
Vanadium	ND		0.0050		mg/L		06/16/16 07:34	06/16/16 18:41	1
Zinc	0.10	F2 F1	0.010		mg/L		06/16/16 07:34	06/16/16 18:41	1

**Method: 6010C - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		06/17/16 11:15	06/17/16 22:51	1
Antimony	ND		0.020		mg/L		06/17/16 11:15	06/17/16 22:51	1
Arsenic	ND		0.015		mg/L		06/17/16 11:15	06/17/16 22:51	1
Barium	0.015		0.0020		mg/L		06/17/16 11:15	06/17/16 22:51	1
Beryllium	ND		0.0020		mg/L		06/17/16 11:15	06/17/16 22:51	1
Cadmium	ND		0.0020		mg/L		06/17/16 11:15	06/17/16 22:51	1
Calcium	215		0.50		mg/L		06/17/16 11:15	06/17/16 22:51	1
Chromium	ND		0.0040		mg/L		06/17/16 11:15	06/17/16 22:51	1
Cobalt	ND		0.0040		mg/L		06/17/16 11:15	06/17/16 22:51	1
Copper	ND		0.010		mg/L		06/17/16 11:15	06/17/16 22:51	1
Iron	ND		0.050		mg/L		06/17/16 11:15	06/17/16 22:51	1
Lead	ND		0.010		mg/L		06/17/16 11:15	06/17/16 22:51	1
Magnesium	99.9		0.20		mg/L		06/17/16 11:15	06/17/16 22:51	1
Manganese	0.087		0.0030		mg/L		06/17/16 11:15	06/17/16 22:51	1
Nickel	ND		0.010		mg/L		06/17/16 11:15	06/17/16 22:51	1
Potassium	8.3		0.50		mg/L		06/17/16 11:15	06/17/16 22:51	1
Selenium	ND		0.025		mg/L		06/17/16 11:15	06/17/16 22:51	1
Silver	ND		0.0060		mg/L		06/17/16 11:15	06/17/16 22:51	1
Sodium	77.9		1.0		mg/L		06/17/16 11:15	06/17/16 22:51	1
Thallium	ND		0.020		mg/L		06/17/16 11:15	06/17/16 22:51	1
Vanadium	ND		0.0050		mg/L		06/17/16 11:15	06/17/16 22:51	1
Zinc	0.094		0.010		mg/L		06/17/16 11:15	06/17/16 22:51	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/16/16 06:55	06/16/16 11:29	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/17/16 11:30	06/17/16 14:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		06/16/16 10:12	06/17/16 09:22	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-2**

**Lab Sample ID: 480-101666-8**

**Date Collected: 06/14/16 18:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	2.0	1.6	ug/L			06/16/16 03:53	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			06/16/16 03:53	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			06/16/16 03:53	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			06/16/16 03:53	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			06/16/16 03:53	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			06/16/16 03:53	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			06/16/16 03:53	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			06/16/16 03:53	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			06/16/16 03:53	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			06/16/16 03:53	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			06/16/16 03:53	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			06/16/16 03:53	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			06/16/16 03:53	2
2-Butanone (MEK)	ND		20	2.6	ug/L			06/16/16 03:53	2
2-Hexanone	ND		10	2.5	ug/L			06/16/16 03:53	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			06/16/16 03:53	2
<b>Acetone</b>	<b>44</b>		20	6.0	ug/L			06/16/16 03:53	2
Benzene	ND		2.0	0.82	ug/L			06/16/16 03:53	2
Bromodichloromethane	ND		2.0	0.78	ug/L			06/16/16 03:53	2
Bromoform	ND		2.0	0.52	ug/L			06/16/16 03:53	2
Bromomethane	ND		2.0	1.4	ug/L			06/16/16 03:53	2
<b>Carbon disulfide</b>	<b>0.96</b>	<b>J</b>	2.0	0.38	ug/L			06/16/16 03:53	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			06/16/16 03:53	2
Chlorobenzene	ND		2.0	1.5	ug/L			06/16/16 03:53	2
Dibromochloromethane	ND		2.0	0.64	ug/L			06/16/16 03:53	2
Chloroethane	ND		2.0	0.64	ug/L			06/16/16 03:53	2
Chloroform	ND		2.0	0.68	ug/L			06/16/16 03:53	2
Chloromethane	ND		2.0	0.70	ug/L			06/16/16 03:53	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			06/16/16 03:53	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			06/16/16 03:53	2
Cyclohexane	ND		2.0	0.36	ug/L			06/16/16 03:53	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			06/16/16 03:53	2
Ethylbenzene	ND		2.0	1.5	ug/L			06/16/16 03:53	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			06/16/16 03:53	2
Isopropylbenzene	ND		2.0	1.6	ug/L			06/16/16 03:53	2
Methyl acetate	ND		5.0	2.6	ug/L			06/16/16 03:53	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			06/16/16 03:53	2
Methylcyclohexane	ND		2.0	0.32	ug/L			06/16/16 03:53	2
Methylene Chloride	ND		2.0	0.88	ug/L			06/16/16 03:53	2
Styrene	ND		2.0	1.5	ug/L			06/16/16 03:53	2
Tetrachloroethene	ND		2.0	0.72	ug/L			06/16/16 03:53	2
Toluene	ND		2.0	1.0	ug/L			06/16/16 03:53	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			06/16/16 03:53	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			06/16/16 03:53	2
<b>Trichloroethene</b>	<b>11</b>		2.0	0.92	ug/L			06/16/16 03:53	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			06/16/16 03:53	2
Vinyl chloride	ND		2.0	1.8	ug/L			06/16/16 03:53	2
Xylenes, Total	ND		4.0	1.3	ug/L			06/16/16 03:53	2

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-2**

**Lab Sample ID: 480-101666-8**

**Date Collected: 06/14/16 18:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		71 - 126		06/16/16 03:53	2
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		06/16/16 03:53	2
4-Bromofluorobenzene (Surr)	114		73 - 120		06/16/16 03:53	2
Dibromofluoromethane (Surr)	93		60 - 140		06/16/16 03:53	2

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.8	0.76	ug/L		06/17/16 15:18	06/18/16 18:26	1
bis (2-chloroisopropyl) ether	ND		5.8	0.60	ug/L		06/17/16 15:18	06/18/16 18:26	1
2,4,5-Trichlorophenol	ND		5.8	0.56	ug/L		06/17/16 15:18	06/18/16 18:26	1
2,4,6-Trichlorophenol	ND		5.8	0.71	ug/L		06/17/16 15:18	06/18/16 18:26	1
2,4-Dichlorophenol	ND		5.8	0.59	ug/L		06/17/16 15:18	06/18/16 18:26	1
2,4-Dimethylphenol	ND		5.8	0.58	ug/L		06/17/16 15:18	06/18/16 18:26	1
2,4-Dinitrophenol	ND		12	2.6	ug/L		06/17/16 15:18	06/18/16 18:26	1
2,4-Dinitrotoluene	ND		5.8	0.52	ug/L		06/17/16 15:18	06/18/16 18:26	1
2,6-Dinitrotoluene	ND		5.8	0.46	ug/L		06/17/16 15:18	06/18/16 18:26	1
2-Chloronaphthalene	ND		5.8	0.53	ug/L		06/17/16 15:18	06/18/16 18:26	1
2-Chlorophenol	ND		5.8	0.62	ug/L		06/17/16 15:18	06/18/16 18:26	1
2-Methylphenol	ND		5.8	0.46	ug/L		06/17/16 15:18	06/18/16 18:26	1
2-Methylnaphthalene	ND		5.8	0.70	ug/L		06/17/16 15:18	06/18/16 18:26	1
2-Nitroaniline	ND		12	0.49	ug/L		06/17/16 15:18	06/18/16 18:26	1
2-Nitrophenol	ND		5.8	0.56	ug/L		06/17/16 15:18	06/18/16 18:26	1
3,3'-Dichlorobenzidine	ND		5.8	0.46	ug/L		06/17/16 15:18	06/18/16 18:26	1
3-Nitroaniline	ND		12	0.56	ug/L		06/17/16 15:18	06/18/16 18:26	1
4,6-Dinitro-2-methylphenol	ND		12	2.6	ug/L		06/17/16 15:18	06/18/16 18:26	1
4-Bromophenyl phenyl ether	ND		5.8	0.52	ug/L		06/17/16 15:18	06/18/16 18:26	1
4-Chloro-3-methylphenol	ND		5.8	0.52	ug/L		06/17/16 15:18	06/18/16 18:26	1
4-Chloroaniline	ND		5.8	0.69	ug/L		06/17/16 15:18	06/18/16 18:26	1
4-Chlorophenyl phenyl ether	ND		5.8	0.41	ug/L		06/17/16 15:18	06/18/16 18:26	1
4-Methylphenol	ND		12	0.42	ug/L		06/17/16 15:18	06/18/16 18:26	1
4-Nitroaniline	ND		12	0.29	ug/L		06/17/16 15:18	06/18/16 18:26	1
4-Nitrophenol	ND		12	1.8	ug/L		06/17/16 15:18	06/18/16 18:26	1
Acenaphthene	ND		5.8	0.48	ug/L		06/17/16 15:18	06/18/16 18:26	1
Acenaphthylene	ND		5.8	0.44	ug/L		06/17/16 15:18	06/18/16 18:26	1
<b>Acetophenone</b>	<b>0.95</b>	<b>J</b>	5.8	0.63	ug/L		06/17/16 15:18	06/18/16 18:26	1
Anthracene	ND		5.8	0.33	ug/L		06/17/16 15:18	06/18/16 18:26	1
Atrazine	ND		5.8	0.53	ug/L		06/17/16 15:18	06/18/16 18:26	1
Benzaldehyde	ND		5.8	0.31	ug/L		06/17/16 15:18	06/18/16 18:26	1
Benzo[a]anthracene	ND		5.8	0.42	ug/L		06/17/16 15:18	06/18/16 18:26	1
Benzo[a]pyrene	ND		5.8	0.55	ug/L		06/17/16 15:18	06/18/16 18:26	1
Benzo[b]fluoranthene	ND		5.8	0.40	ug/L		06/17/16 15:18	06/18/16 18:26	1
Benzo[g,h,i]perylene	ND		5.8	0.41	ug/L		06/17/16 15:18	06/18/16 18:26	1
Benzo[k]fluoranthene	ND		5.8	0.85	ug/L		06/17/16 15:18	06/18/16 18:26	1
Bis(2-chloroethoxy)methane	ND		5.8	0.41	ug/L		06/17/16 15:18	06/18/16 18:26	1
Bis(2-chloroethyl)ether	ND		5.8	0.46	ug/L		06/17/16 15:18	06/18/16 18:26	1
Bis(2-ethylhexyl) phthalate	ND		5.8	2.6	ug/L		06/17/16 15:18	06/18/16 18:26	1
Butyl benzyl phthalate	ND		5.8	1.2	ug/L		06/17/16 15:18	06/18/16 18:26	1
Caprolactam	ND		5.8	2.6	ug/L		06/17/16 15:18	06/18/16 18:26	1
Carbazole	ND		5.8	0.35	ug/L		06/17/16 15:18	06/18/16 18:26	1
Chrysene	ND		5.8	0.38	ug/L		06/17/16 15:18	06/18/16 18:26	1

TestAmerica Buffalo



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-2**

**Lab Sample ID: 480-101666-8**

**Date Collected: 06/14/16 18:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		5.8	0.49	ug/L		06/17/16 15:18	06/18/16 18:26	1
Di-n-butyl phthalate	ND		5.8	0.36	ug/L		06/17/16 15:18	06/18/16 18:26	1
Di-n-octyl phthalate	ND		5.8	0.55	ug/L		06/17/16 15:18	06/18/16 18:26	1
Dibenzofuran	ND		12	0.59	ug/L		06/17/16 15:18	06/18/16 18:26	1
Diethyl phthalate	ND		5.8	0.26	ug/L		06/17/16 15:18	06/18/16 18:26	1
Dimethyl phthalate	ND		5.8	0.42	ug/L		06/17/16 15:18	06/18/16 18:26	1
Fluoranthene	ND		5.8	0.46	ug/L		06/17/16 15:18	06/18/16 18:26	1
Fluorene	ND		5.8	0.42	ug/L		06/17/16 15:18	06/18/16 18:26	1
Hexachlorobenzene	ND		5.8	0.59	ug/L		06/17/16 15:18	06/18/16 18:26	1
Hexachlorobutadiene	ND		5.8	0.79	ug/L		06/17/16 15:18	06/18/16 18:26	1
Hexachlorocyclopentadiene	ND		5.8	0.69	ug/L		06/17/16 15:18	06/18/16 18:26	1
Hexachloroethane	ND		5.8	0.69	ug/L		06/17/16 15:18	06/18/16 18:26	1
Indeno[1,2,3-cd]pyrene	ND		5.8	0.55	ug/L		06/17/16 15:18	06/18/16 18:26	1
Isophorone	ND		5.8	0.50	ug/L		06/17/16 15:18	06/18/16 18:26	1
N-Nitrosodi-n-propylamine	ND		5.8	0.63	ug/L		06/17/16 15:18	06/18/16 18:26	1
N-Nitrosodiphenylamine	ND		5.8	0.59	ug/L		06/17/16 15:18	06/18/16 18:26	1
Naphthalene	ND		5.8	0.88	ug/L		06/17/16 15:18	06/18/16 18:26	1
Nitrobenzene	ND		5.8	0.34	ug/L		06/17/16 15:18	06/18/16 18:26	1
Pentachlorophenol	ND		12	2.6	ug/L		06/17/16 15:18	06/18/16 18:26	1
Phenanthrene	ND		5.8	0.51	ug/L		06/17/16 15:18	06/18/16 18:26	1
Phenol	ND		5.8	0.45	ug/L		06/17/16 15:18	06/18/16 18:26	1
Pyrene	ND		5.8	0.40	ug/L		06/17/16 15:18	06/18/16 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	92		46 - 120	06/17/16 15:18	06/18/16 18:26	1
Phenol-d5 (Surr)	58		16 - 120	06/17/16 15:18	06/18/16 18:26	1
p-Terphenyl-d14 (Surr)	100		67 - 150	06/17/16 15:18	06/18/16 18:26	1
2,4,6-Tribromophenol (Surr)	109		52 - 132	06/17/16 15:18	06/18/16 18:26	1
2-Fluorobiphenyl	92		48 - 120	06/17/16 15:18	06/18/16 18:26	1
2-Fluorophenol (Surr)	74		20 - 120	06/17/16 15:18	06/18/16 18:26	1

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.088	J	0.24	0.044	ug/L		06/16/16 08:00	06/17/16 14:55	5
4,4'-DDE	ND		0.24	0.055	ug/L		06/16/16 08:00	06/17/16 14:55	5
4,4'-DDT	ND		0.24	0.052	ug/L		06/16/16 08:00	06/17/16 14:55	5
Aldrin	ND		0.24	0.038	ug/L		06/16/16 08:00	06/17/16 14:55	5
alpha-BHC	ND		0.24	0.036	ug/L		06/16/16 08:00	06/17/16 14:55	5
alpha-Chlordane	ND		0.24	0.070	ug/L		06/16/16 08:00	06/17/16 14:55	5
beta-BHC	ND		0.24	0.12	ug/L		06/16/16 08:00	06/17/16 14:55	5
delta-BHC	ND		0.24	0.047	ug/L		06/16/16 08:00	06/17/16 14:55	5
Dieldrin	ND		0.24	0.046	ug/L		06/16/16 08:00	06/17/16 14:55	5
Endosulfan I	ND		0.24	0.052	ug/L		06/16/16 08:00	06/17/16 14:55	5
Endosulfan II	ND		0.24	0.057	ug/L		06/16/16 08:00	06/17/16 14:55	5
Endosulfan sulfate	ND		0.24	0.074	ug/L		06/16/16 08:00	06/17/16 14:55	5
Endrin	ND		0.24	0.065	ug/L		06/16/16 08:00	06/17/16 14:55	5
Endrin aldehyde	ND		0.24	0.077	ug/L		06/16/16 08:00	06/17/16 14:55	5
Endrin ketone	ND		0.24	0.057	ug/L		06/16/16 08:00	06/17/16 14:55	5
gamma-BHC (Lindane)	ND		0.24	0.038	ug/L		06/16/16 08:00	06/17/16 14:55	5
gamma-Chlordane	ND		0.24	0.052	ug/L		06/16/16 08:00	06/17/16 14:55	5

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-2**

**Lab Sample ID: 480-101666-8**

**Date Collected: 06/14/16 18:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.24	0.040	ug/L		06/16/16 08:00	06/17/16 14:55	5
Heptachlor epoxide	ND		0.24	0.035	ug/L		06/16/16 08:00	06/17/16 14:55	5
Methoxychlor	ND		0.24	0.067	ug/L		06/16/16 08:00	06/17/16 14:55	5
Toxaphene	ND		2.4	0.57	ug/L		06/16/16 08:00	06/17/16 14:55	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	33		20 - 120	06/16/16 08:00	06/17/16 14:55	5
DCB Decachlorobiphenyl	43		20 - 120	06/16/16 08:00	06/17/16 14:55	5
Tetrachloro-m-xylene	231	X	36 - 120	06/16/16 08:00	06/17/16 14:55	5
Tetrachloro-m-xylene	91		36 - 120	06/16/16 08:00	06/17/16 14:55	5

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 02:12	1
PCB-1221	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 02:12	1
PCB-1232	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 02:12	1
PCB-1242	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 02:12	1
PCB-1248	ND		0.48	0.17	ug/L		06/16/16 07:53	06/17/16 02:12	1
PCB-1254	ND		0.48	0.24	ug/L		06/16/16 07:53	06/17/16 02:12	1
PCB-1260	ND		0.48	0.24	ug/L		06/16/16 07:53	06/17/16 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		24 - 137	06/16/16 07:53	06/17/16 02:12	1
Tetrachloro-m-xylene	80		24 - 137	06/16/16 07:53	06/17/16 02:12	1
DCB Decachlorobiphenyl	32		19 - 125	06/16/16 07:53	06/17/16 02:12	1
DCB Decachlorobiphenyl	34		19 - 125	06/16/16 07:53	06/17/16 02:12	1

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.14	ug/L		06/15/16 15:50	06/17/16 12:10	1
Silvex (2,4,5-TP)	ND		1.0	0.10	ug/L		06/15/16 15:50	06/17/16 12:10	1
2,4-D	ND		1.0	0.34	ug/L		06/15/16 15:50	06/17/16 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	99		35 - 143	06/15/16 15:50	06/17/16 12:10	1
2,4-Dichlorophenylacetic acid	97		35 - 143	06/15/16 15:50	06/17/16 12:10	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>3.2</b>		0.20		mg/L		06/16/16 07:34	06/16/16 19:08	1
Antimony	ND		0.020		mg/L		06/16/16 07:34	06/16/16 19:08	1
Arsenic	ND		0.015		mg/L		06/16/16 07:34	06/16/16 19:08	1
<b>Barium</b>	<b>0.055</b>	<b>B</b>	0.0020		mg/L		06/16/16 07:34	06/16/16 19:08	1
Beryllium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 19:08	1
Cadmium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 19:08	1
<b>Calcium</b>	<b>219</b>		0.50		mg/L		06/16/16 07:34	06/16/16 19:08	1
Chromium	ND		0.0040		mg/L		06/16/16 07:34	06/16/16 19:08	1
Cobalt	ND		0.0040		mg/L		06/16/16 07:34	06/16/16 19:08	1
Copper	ND		0.010		mg/L		06/16/16 07:34	06/16/16 19:08	1
<b>Iron</b>	<b>3.0</b>		0.050		mg/L		06/16/16 07:34	06/16/16 19:08	1
Lead	ND		0.010		mg/L		06/16/16 07:34	06/16/16 19:08	1

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# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-2**

**Lab Sample ID: 480-101666-8**

**Date Collected: 06/14/16 18:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

### Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	122		0.20		mg/L		06/16/16 07:34	06/16/16 19:08	1
Manganese	0.20		0.0030		mg/L		06/16/16 07:34	06/16/16 19:08	1
Nickel	0.018		0.010		mg/L		06/16/16 07:34	06/16/16 19:08	1
Potassium	67.2		0.50		mg/L		06/16/16 07:34	06/16/16 19:08	1
Selenium	ND		0.025		mg/L		06/16/16 07:34	06/16/16 19:08	1
Silver	ND		0.0060		mg/L		06/16/16 07:34	06/16/16 19:08	1
Sodium	882		1.0		mg/L		06/16/16 07:34	06/16/16 19:08	1
Thallium	ND		0.020		mg/L		06/16/16 07:34	06/16/16 19:08	1
Vanadium	ND		0.0050		mg/L		06/16/16 07:34	06/16/16 19:08	1
Zinc	0.041		0.010		mg/L		06/16/16 07:34	06/16/16 19:08	1

### Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		06/17/16 11:15	06/17/16 23:17	1
Antimony	ND		0.020		mg/L		06/17/16 11:15	06/17/16 23:17	1
Arsenic	ND		0.015		mg/L		06/17/16 11:15	06/17/16 23:17	1
Barium	0.017		0.0020		mg/L		06/17/16 11:15	06/17/16 23:17	1
Beryllium	ND		0.0020		mg/L		06/17/16 11:15	06/17/16 23:17	1
Cadmium	ND		0.0020		mg/L		06/17/16 11:15	06/17/16 23:17	1
Calcium	209		0.50		mg/L		06/17/16 11:15	06/17/16 23:17	1
Chromium	ND		0.0040		mg/L		06/17/16 11:15	06/17/16 23:17	1
Cobalt	ND		0.0040		mg/L		06/17/16 11:15	06/17/16 23:17	1
Copper	ND		0.010		mg/L		06/17/16 11:15	06/17/16 23:17	1
Iron	ND		0.050		mg/L		06/17/16 11:15	06/17/16 23:17	1
Lead	ND		0.010		mg/L		06/17/16 11:15	06/17/16 23:17	1
Magnesium	120		0.20		mg/L		06/17/16 11:15	06/17/16 23:17	1
Manganese	0.16		0.0030		mg/L		06/17/16 11:15	06/17/16 23:17	1
Nickel	0.015		0.010		mg/L		06/17/16 11:15	06/17/16 23:17	1
Potassium	63.0		0.50		mg/L		06/17/16 11:15	06/17/16 23:17	1
Selenium	ND		0.025		mg/L		06/17/16 11:15	06/17/16 23:17	1
Silver	ND		0.0060		mg/L		06/17/16 11:15	06/17/16 23:17	1
Sodium	884		1.0		mg/L		06/17/16 11:15	06/17/16 23:17	1
Thallium	ND		0.020		mg/L		06/17/16 11:15	06/17/16 23:17	1
Vanadium	ND		0.0050		mg/L		06/17/16 11:15	06/17/16 23:17	1
Zinc	0.015		0.010		mg/L		06/17/16 11:15	06/17/16 23:17	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/16/16 06:55	06/16/16 11:35	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/17/16 11:30	06/17/16 14:33	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		06/16/16 10:12	06/17/16 09:26	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-1**

**Lab Sample ID: 480-101666-9**

**Date Collected: 06/14/16 18:23**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	1.0	0.82	ug/L			06/16/16 04:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/16/16 04:19	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/16/16 04:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/16/16 04:19	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/16/16 04:19	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/16/16 04:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/16/16 04:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/16/16 04:19	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/16/16 04:19	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/16/16 04:19	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/16/16 04:19	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/16/16 04:19	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/16/16 04:19	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/16/16 04:19	1
2-Hexanone	ND		5.0	1.2	ug/L			06/16/16 04:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/16/16 04:19	1
Acetone	ND		10	3.0	ug/L			06/16/16 04:19	1
Benzene	ND		1.0	0.41	ug/L			06/16/16 04:19	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/16/16 04:19	1
Bromoform	ND		1.0	0.26	ug/L			06/16/16 04:19	1
Bromomethane	ND		1.0	0.69	ug/L			06/16/16 04:19	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/16/16 04:19	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/16/16 04:19	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/16/16 04:19	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/16/16 04:19	1
Chloroethane	ND		1.0	0.32	ug/L			06/16/16 04:19	1
Chloroform	ND		1.0	0.34	ug/L			06/16/16 04:19	1
Chloromethane	ND		1.0	0.35	ug/L			06/16/16 04:19	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/16/16 04:19	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/16/16 04:19	1
Cyclohexane	ND		1.0	0.18	ug/L			06/16/16 04:19	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/16/16 04:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/16/16 04:19	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/16/16 04:19	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/16/16 04:19	1
Methyl acetate	ND		2.5	1.3	ug/L			06/16/16 04:19	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/16/16 04:19	1
<b>Methylcyclohexane</b>	<b>0.64</b>	<b>J</b>	1.0	0.16	ug/L			06/16/16 04:19	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/16/16 04:19	1
Styrene	ND		1.0	0.73	ug/L			06/16/16 04:19	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/16/16 04:19	1
Toluene	ND		1.0	0.51	ug/L			06/16/16 04:19	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/16/16 04:19	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/16/16 04:19	1
Trichloroethene	ND		1.0	0.46	ug/L			06/16/16 04:19	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/16/16 04:19	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/16/16 04:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/16/16 04:19	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-1**

**Lab Sample ID: 480-101666-9**

**Date Collected: 06/14/16 18:23**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		71 - 126		06/16/16 04:19	1
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		06/16/16 04:19	1
4-Bromofluorobenzene (Surr)	115		73 - 120		06/16/16 04:19	1
Dibromofluoromethane (Surr)	99		60 - 140		06/16/16 04:19	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4.8	0.63	ug/L		06/16/16 07:48	06/16/16 22:11	1
bis (2-chloroisopropyl) ether	ND		4.8	0.50	ug/L		06/16/16 07:48	06/16/16 22:11	1
2,4,5-Trichlorophenol	ND		4.8	0.46	ug/L		06/16/16 07:48	06/16/16 22:11	1
2,4,6-Trichlorophenol	ND		4.8	0.59	ug/L		06/16/16 07:48	06/16/16 22:11	1
2,4-Dichlorophenol	ND		4.8	0.49	ug/L		06/16/16 07:48	06/16/16 22:11	1
2,4-Dimethylphenol	ND		4.8	0.48	ug/L		06/16/16 07:48	06/16/16 22:11	1
2,4-Dinitrophenol	ND		9.6	2.1	ug/L		06/16/16 07:48	06/16/16 22:11	1
2,4-Dinitrotoluene	ND		4.8	0.43	ug/L		06/16/16 07:48	06/16/16 22:11	1
2,6-Dinitrotoluene	ND		4.8	0.39	ug/L		06/16/16 07:48	06/16/16 22:11	1
2-Chloronaphthalene	ND		4.8	0.44	ug/L		06/16/16 07:48	06/16/16 22:11	1
2-Chlorophenol	ND		4.8	0.51	ug/L		06/16/16 07:48	06/16/16 22:11	1
2-Methylphenol	ND		4.8	0.39	ug/L		06/16/16 07:48	06/16/16 22:11	1
2-Methylnaphthalene	ND		4.8	0.58	ug/L		06/16/16 07:48	06/16/16 22:11	1
2-Nitroaniline	ND		9.6	0.40	ug/L		06/16/16 07:48	06/16/16 22:11	1
2-Nitrophenol	ND		4.8	0.46	ug/L		06/16/16 07:48	06/16/16 22:11	1
3,3'-Dichlorobenzidine	ND		4.8	0.39	ug/L		06/16/16 07:48	06/16/16 22:11	1
3-Nitroaniline	ND		9.6	0.46	ug/L		06/16/16 07:48	06/16/16 22:11	1
4,6-Dinitro-2-methylphenol	ND		9.6	2.1	ug/L		06/16/16 07:48	06/16/16 22:11	1
4-Bromophenyl phenyl ether	ND		4.8	0.43	ug/L		06/16/16 07:48	06/16/16 22:11	1
4-Chloro-3-methylphenol	ND		4.8	0.43	ug/L		06/16/16 07:48	06/16/16 22:11	1
4-Chloroaniline	ND		4.8	0.57	ug/L		06/16/16 07:48	06/16/16 22:11	1
4-Chlorophenyl phenyl ether	ND		4.8	0.34	ug/L		06/16/16 07:48	06/16/16 22:11	1
4-Methylphenol	ND		9.6	0.35	ug/L		06/16/16 07:48	06/16/16 22:11	1
4-Nitroaniline	ND		9.6	0.24	ug/L		06/16/16 07:48	06/16/16 22:11	1
4-Nitrophenol	ND		9.6	1.5	ug/L		06/16/16 07:48	06/16/16 22:11	1
Acenaphthene	ND		4.8	0.40	ug/L		06/16/16 07:48	06/16/16 22:11	1
Acenaphthylene	ND		4.8	0.37	ug/L		06/16/16 07:48	06/16/16 22:11	1
Acetophenone	ND		4.8	0.52	ug/L		06/16/16 07:48	06/16/16 22:11	1
Anthracene	ND		4.8	0.27	ug/L		06/16/16 07:48	06/16/16 22:11	1
Atrazine	ND		4.8	0.44	ug/L		06/16/16 07:48	06/16/16 22:11	1
Benzaldehyde	ND		4.8	0.26	ug/L		06/16/16 07:48	06/16/16 22:11	1
Benzo[a]anthracene	ND		4.8	0.35	ug/L		06/16/16 07:48	06/16/16 22:11	1
Benzo[a]pyrene	ND		4.8	0.45	ug/L		06/16/16 07:48	06/16/16 22:11	1
Benzo[b]fluoranthene	ND		4.8	0.33	ug/L		06/16/16 07:48	06/16/16 22:11	1
Benzo[g,h,i]perylene	ND		4.8	0.34	ug/L		06/16/16 07:48	06/16/16 22:11	1
Benzo[k]fluoranthene	ND		4.8	0.70	ug/L		06/16/16 07:48	06/16/16 22:11	1
Bis(2-chloroethoxy)methane	ND		4.8	0.34	ug/L		06/16/16 07:48	06/16/16 22:11	1
Bis(2-chloroethyl)ether	ND		4.8	0.39	ug/L		06/16/16 07:48	06/16/16 22:11	1
Bis(2-ethylhexyl) phthalate	ND		4.8	2.1	ug/L		06/16/16 07:48	06/16/16 22:11	1
Butyl benzyl phthalate	ND		4.8	0.96	ug/L		06/16/16 07:48	06/16/16 22:11	1
Caprolactam	ND		4.8	2.1	ug/L		06/16/16 07:48	06/16/16 22:11	1
Carbazole	ND		4.8	0.29	ug/L		06/16/16 07:48	06/16/16 22:11	1
Chrysene	ND		4.8	0.32	ug/L		06/16/16 07:48	06/16/16 22:11	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-1**

**Lab Sample ID: 480-101666-9**

**Date Collected: 06/14/16 18:23**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		4.8	0.40	ug/L		06/16/16 07:48	06/16/16 22:11	1
Di-n-butyl phthalate	ND		4.8	0.30	ug/L		06/16/16 07:48	06/16/16 22:11	1
Di-n-octyl phthalate	ND		4.8	0.45	ug/L		06/16/16 07:48	06/16/16 22:11	1
Dibenzofuran	ND		9.6	0.49	ug/L		06/16/16 07:48	06/16/16 22:11	1
Diethyl phthalate	ND		4.8	0.21	ug/L		06/16/16 07:48	06/16/16 22:11	1
Dimethyl phthalate	ND		4.8	0.35	ug/L		06/16/16 07:48	06/16/16 22:11	1
Fluoranthene	ND		4.8	0.39	ug/L		06/16/16 07:48	06/16/16 22:11	1
Fluorene	ND		4.8	0.35	ug/L		06/16/16 07:48	06/16/16 22:11	1
Hexachlorobenzene	ND		4.8	0.49	ug/L		06/16/16 07:48	06/16/16 22:11	1
Hexachlorobutadiene	ND		4.8	0.66	ug/L		06/16/16 07:48	06/16/16 22:11	1
Hexachlorocyclopentadiene	ND		4.8	0.57	ug/L		06/16/16 07:48	06/16/16 22:11	1
Hexachloroethane	ND		4.8	0.57	ug/L		06/16/16 07:48	06/16/16 22:11	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.45	ug/L		06/16/16 07:48	06/16/16 22:11	1
Isophorone	ND		4.8	0.41	ug/L		06/16/16 07:48	06/16/16 22:11	1
N-Nitrosodi-n-propylamine	ND		4.8	0.52	ug/L		06/16/16 07:48	06/16/16 22:11	1
N-Nitrosodiphenylamine	ND		4.8	0.49	ug/L		06/16/16 07:48	06/16/16 22:11	1
Naphthalene	ND		4.8	0.73	ug/L		06/16/16 07:48	06/16/16 22:11	1
Nitrobenzene	ND		4.8	0.28	ug/L		06/16/16 07:48	06/16/16 22:11	1
Pentachlorophenol	ND		9.6	2.1	ug/L		06/16/16 07:48	06/16/16 22:11	1
Phenanthrene	ND		4.8	0.42	ug/L		06/16/16 07:48	06/16/16 22:11	1
Phenol	ND		4.8	0.38	ug/L		06/16/16 07:48	06/16/16 22:11	1
Pyrene	ND		4.8	0.33	ug/L		06/16/16 07:48	06/16/16 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	72		46 - 120	06/16/16 07:48	06/16/16 22:11	1
Phenol-d5 (Surr)	40		16 - 120	06/16/16 07:48	06/16/16 22:11	1
p-Terphenyl-d14 (Surr)	85		67 - 150	06/16/16 07:48	06/16/16 22:11	1
2,4,6-Tribromophenol (Surr)	77		52 - 132	06/16/16 07:48	06/16/16 22:11	1
2-Fluorobiphenyl	66		48 - 120	06/16/16 07:48	06/16/16 22:11	1
2-Fluorophenol (Surr)	56		20 - 120	06/16/16 07:48	06/16/16 22:11	1

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.048	0.0088	ug/L		06/16/16 08:00	06/17/16 15:15	1
4,4'-DDE	ND		0.048	0.011	ug/L		06/16/16 08:00	06/17/16 15:15	1
4,4'-DDT	ND		0.048	0.011	ug/L		06/16/16 08:00	06/17/16 15:15	1
Aldrin	ND		0.048	0.0078	ug/L		06/16/16 08:00	06/17/16 15:15	1
alpha-BHC	ND		0.048	0.0074	ug/L		06/16/16 08:00	06/17/16 15:15	1
alpha-Chlordane	ND		0.048	0.014	ug/L		06/16/16 08:00	06/17/16 15:15	1
beta-BHC	ND		0.048	0.024	ug/L		06/16/16 08:00	06/17/16 15:15	1
delta-BHC	ND		0.048	0.0096	ug/L		06/16/16 08:00	06/17/16 15:15	1
Dieldrin	ND		0.048	0.0094	ug/L		06/16/16 08:00	06/17/16 15:15	1
Endosulfan I	ND		0.048	0.011	ug/L		06/16/16 08:00	06/17/16 15:15	1
Endosulfan II	ND		0.048	0.012	ug/L		06/16/16 08:00	06/17/16 15:15	1
Endosulfan sulfate	ND		0.048	0.015	ug/L		06/16/16 08:00	06/17/16 15:15	1
Endrin	ND		0.048	0.013	ug/L		06/16/16 08:00	06/17/16 15:15	1
Endrin aldehyde	ND		0.048	0.016	ug/L		06/16/16 08:00	06/17/16 15:15	1
Endrin ketone	ND		0.048	0.012	ug/L		06/16/16 08:00	06/17/16 15:15	1
gamma-BHC (Lindane)	ND		0.048	0.0077	ug/L		06/16/16 08:00	06/17/16 15:15	1
gamma-Chlordane	ND		0.048	0.011	ug/L		06/16/16 08:00	06/17/16 15:15	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-1**

**Lab Sample ID: 480-101666-9**

**Date Collected: 06/14/16 18:23**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.048	0.0082	ug/L		06/16/16 08:00	06/17/16 15:15	1
Heptachlor epoxide	ND		0.048	0.0071	ug/L		06/16/16 08:00	06/17/16 15:15	1
Methoxychlor	ND		0.048	0.014	ug/L		06/16/16 08:00	06/17/16 15:15	1
Toxaphene	ND		0.48	0.12	ug/L		06/16/16 08:00	06/17/16 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	22		20 - 120	06/16/16 08:00	06/17/16 15:15	1
DCB Decachlorobiphenyl	27		20 - 120	06/16/16 08:00	06/17/16 15:15	1
Tetrachloro-m-xylene	71		36 - 120	06/16/16 08:00	06/17/16 15:15	1
Tetrachloro-m-xylene	69		36 - 120	06/16/16 08:00	06/17/16 15:15	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		06/16/16 07:53	06/17/16 02:28	1
PCB-1221	ND		0.50	0.18	ug/L		06/16/16 07:53	06/17/16 02:28	1
PCB-1232	ND		0.50	0.18	ug/L		06/16/16 07:53	06/17/16 02:28	1
PCB-1242	ND		0.50	0.18	ug/L		06/16/16 07:53	06/17/16 02:28	1
PCB-1248	ND		0.50	0.18	ug/L		06/16/16 07:53	06/17/16 02:28	1
PCB-1254	ND		0.50	0.25	ug/L		06/16/16 07:53	06/17/16 02:28	1
PCB-1260	ND		0.50	0.25	ug/L		06/16/16 07:53	06/17/16 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		24 - 137	06/16/16 07:53	06/17/16 02:28	1
Tetrachloro-m-xylene	88		24 - 137	06/16/16 07:53	06/17/16 02:28	1
DCB Decachlorobiphenyl	31		19 - 125	06/16/16 07:53	06/17/16 02:28	1
DCB Decachlorobiphenyl	32		19 - 125	06/16/16 07:53	06/17/16 02:28	1

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.54	0.074	ug/L		06/15/16 15:50	06/17/16 12:40	1
Silvex (2,4,5-TP)	ND		0.54	0.054	ug/L		06/15/16 15:50	06/17/16 12:40	1
2,4-D	ND		0.54	0.19	ug/L		06/15/16 15:50	06/17/16 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	90		35 - 143	06/15/16 15:50	06/17/16 12:40	1
2,4-Dichlorophenylacetic acid	90		35 - 143	06/15/16 15:50	06/17/16 12:40	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	24.4		0.20		mg/L		06/16/16 07:34	06/16/16 19:11	1
Antimony	ND		0.020		mg/L		06/16/16 07:34	06/16/16 19:11	1
Arsenic	ND		0.015		mg/L		06/16/16 07:34	06/16/16 19:11	1
Barium	0.34	B	0.0020		mg/L		06/16/16 07:34	06/16/16 19:11	1
Beryllium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 19:11	1
Cadmium	0.0022		0.0020		mg/L		06/16/16 07:34	06/16/16 19:11	1
Calcium	610		0.50		mg/L		06/16/16 07:34	06/16/16 19:11	1
Chromium	0.040		0.0040		mg/L		06/16/16 07:34	06/16/16 19:11	1
Cobalt	0.020		0.0040		mg/L		06/16/16 07:34	06/16/16 19:11	1
Copper	0.042		0.010		mg/L		06/16/16 07:34	06/16/16 19:11	1
Iron	40.8		0.050		mg/L		06/16/16 07:34	06/16/16 19:11	1
Lead	0.081		0.010		mg/L		06/16/16 07:34	06/16/16 19:11	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-1**

**Lab Sample ID: 480-101666-9**

**Date Collected: 06/14/16 18:23**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	231		0.20		mg/L		06/16/16 07:34	06/16/16 19:11	1
Manganese	1.8		0.0030		mg/L		06/16/16 07:34	06/16/16 19:11	1
Nickel	0.044		0.010		mg/L		06/16/16 07:34	06/16/16 19:11	1
Potassium	28.2		0.50		mg/L		06/16/16 07:34	06/16/16 19:11	1
Selenium	ND		0.025		mg/L		06/16/16 07:34	06/16/16 19:11	1
Silver	ND		0.0060		mg/L		06/16/16 07:34	06/16/16 19:11	1
Sodium	2260		1.0		mg/L		06/16/16 07:34	06/16/16 19:11	1
Thallium	ND		0.020		mg/L		06/16/16 07:34	06/16/16 19:11	1
Vanadium	0.056		0.0050		mg/L		06/16/16 07:34	06/16/16 19:11	1
Zinc	0.37		0.010		mg/L		06/16/16 07:34	06/16/16 19:11	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/16/16 06:55	06/16/16 11:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		06/16/16 10:12	06/17/16 09:27	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-4**

**Lab Sample ID: 480-101666-10**

**Date Collected: 06/14/16 14:48**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	1.0	0.82	ug/L			06/16/16 04:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/16/16 04:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/16/16 04:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/16/16 04:46	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/16/16 04:46	1
<b>1,1-Dichloroethene</b>	<b>0.60</b>	<b>J</b>	1.0	0.29	ug/L			06/16/16 04:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/16/16 04:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/16/16 04:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/16/16 04:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/16/16 04:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/16/16 04:46	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/16/16 04:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/16/16 04:46	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/16/16 04:46	1
2-Hexanone	ND		5.0	1.2	ug/L			06/16/16 04:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/16/16 04:46	1
<b>Acetone</b>	<b>3.2</b>	<b>J</b>	10	3.0	ug/L			06/16/16 04:46	1
Benzene	ND		1.0	0.41	ug/L			06/16/16 04:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/16/16 04:46	1
Bromoform	ND		1.0	0.26	ug/L			06/16/16 04:46	1
Bromomethane	ND		1.0	0.69	ug/L			06/16/16 04:46	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/16/16 04:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/16/16 04:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/16/16 04:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/16/16 04:46	1
Chloroethane	ND		1.0	0.32	ug/L			06/16/16 04:46	1
Chloroform	ND		1.0	0.34	ug/L			06/16/16 04:46	1
Chloromethane	ND		1.0	0.35	ug/L			06/16/16 04:46	1
<b>cis-1,2-Dichloroethene</b>	<b>130</b>	<b>E</b>	1.0	0.81	ug/L			06/16/16 04:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/16/16 04:46	1
Cyclohexane	ND		1.0	0.18	ug/L			06/16/16 04:46	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/16/16 04:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/16/16 04:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/16/16 04:46	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/16/16 04:46	1
Methyl acetate	ND		2.5	1.3	ug/L			06/16/16 04:46	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/16/16 04:46	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/16/16 04:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/16/16 04:46	1
Styrene	ND		1.0	0.73	ug/L			06/16/16 04:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/16/16 04:46	1
Toluene	ND		1.0	0.51	ug/L			06/16/16 04:46	1
<b>trans-1,2-Dichloroethene</b>	<b>180</b>	<b>E</b>	1.0	0.90	ug/L			06/16/16 04:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/16/16 04:46	1
<b>Trichloroethene</b>	<b>82</b>		1.0	0.46	ug/L			06/16/16 04:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/16/16 04:46	1
<b>Vinyl chloride</b>	<b>2.1</b>		1.0	0.90	ug/L			06/16/16 04:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/16/16 04:46	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-4**

**Lab Sample ID: 480-101666-10**

**Date Collected: 06/14/16 14:48**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		71 - 126		06/16/16 04:46	1
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		06/16/16 04:46	1
4-Bromofluorobenzene (Surr)	115		73 - 120		06/16/16 04:46	1
Dibromofluoromethane (Surr)	97		60 - 140		06/16/16 04:46	1

**Method: 8260C - Volatile Organic Compounds by GC/MS - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			06/16/16 18:49	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			06/16/16 18:49	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/16/16 18:49	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			06/16/16 18:49	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			06/16/16 18:49	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			06/16/16 18:49	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			06/16/16 18:49	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			06/16/16 18:49	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			06/16/16 18:49	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			06/16/16 18:49	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			06/16/16 18:49	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			06/16/16 18:49	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			06/16/16 18:49	5
2-Butanone (MEK)	ND		50	6.6	ug/L			06/16/16 18:49	5
2-Hexanone	ND		25	6.2	ug/L			06/16/16 18:49	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			06/16/16 18:49	5
Acetone	ND		50	15	ug/L			06/16/16 18:49	5
Benzene	ND		5.0	2.1	ug/L			06/16/16 18:49	5
Bromodichloromethane	ND		5.0	2.0	ug/L			06/16/16 18:49	5
Bromoform	ND		5.0	1.3	ug/L			06/16/16 18:49	5
Bromomethane	ND		5.0	3.5	ug/L			06/16/16 18:49	5
Carbon disulfide	ND		5.0	0.95	ug/L			06/16/16 18:49	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			06/16/16 18:49	5
Chlorobenzene	ND		5.0	3.8	ug/L			06/16/16 18:49	5
Dibromochloromethane	ND		5.0	1.6	ug/L			06/16/16 18:49	5
Chloroethane	ND		5.0	1.6	ug/L			06/16/16 18:49	5
Chloroform	ND		5.0	1.7	ug/L			06/16/16 18:49	5
Chloromethane	ND		5.0	1.8	ug/L			06/16/16 18:49	5
<b>cis-1,2-Dichloroethene</b>	<b>140</b>		5.0	4.1	ug/L			06/16/16 18:49	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			06/16/16 18:49	5
Cyclohexane	ND		5.0	0.90	ug/L			06/16/16 18:49	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			06/16/16 18:49	5
Ethylbenzene	ND		5.0	3.7	ug/L			06/16/16 18:49	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			06/16/16 18:49	5
Isopropylbenzene	ND		5.0	4.0	ug/L			06/16/16 18:49	5
Methyl acetate	ND		13	6.5	ug/L			06/16/16 18:49	5
<b>Methyl tert-butyl ether</b>	<b>2.0 J</b>		5.0	0.80	ug/L			06/16/16 18:49	5
Methylcyclohexane	ND		5.0	0.80	ug/L			06/16/16 18:49	5
Methylene Chloride	ND		5.0	2.2	ug/L			06/16/16 18:49	5
Styrene	ND		5.0	3.7	ug/L			06/16/16 18:49	5
Tetrachloroethene	ND		5.0	1.8	ug/L			06/16/16 18:49	5
Toluene	ND		5.0	2.6	ug/L			06/16/16 18:49	5
<b>trans-1,2-Dichloroethene</b>	<b>200</b>		5.0	4.5	ug/L			06/16/16 18:49	5

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-4**

**Lab Sample ID: 480-101666-10**

**Date Collected: 06/14/16 14:48**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			06/16/16 18:49	5
<b>Trichloroethene</b>	<b>83</b>		5.0	2.3	ug/L			06/16/16 18:49	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			06/16/16 18:49	5
Vinyl chloride	ND		5.0	4.5	ug/L			06/16/16 18:49	5
Xylenes, Total	ND		10	3.3	ug/L			06/16/16 18:49	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		71 - 126		06/16/16 18:49	5
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		06/16/16 18:49	5
4-Bromofluorobenzene (Surr)	93		73 - 120		06/16/16 18:49	5
Dibromofluoromethane (Surr)	108		60 - 140		06/16/16 18:49	5

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		7.3	0.95	ug/L		06/16/16 07:48	06/16/16 22:40	1
bis (2-chloroisopropyl) ether	ND		7.3	0.76	ug/L		06/16/16 07:48	06/16/16 22:40	1
2,4,5-Trichlorophenol	ND		7.3	0.70	ug/L		06/16/16 07:48	06/16/16 22:40	1
2,4,6-Trichlorophenol	ND		7.3	0.89	ug/L		06/16/16 07:48	06/16/16 22:40	1
2,4-Dichlorophenol	ND		7.3	0.74	ug/L		06/16/16 07:48	06/16/16 22:40	1
2,4-Dimethylphenol	ND		7.3	0.73	ug/L		06/16/16 07:48	06/16/16 22:40	1
2,4-Dinitrophenol	ND		15	3.2	ug/L		06/16/16 07:48	06/16/16 22:40	1
2,4-Dinitrotoluene	ND		7.3	0.65	ug/L		06/16/16 07:48	06/16/16 22:40	1
2,6-Dinitrotoluene	ND		7.3	0.58	ug/L		06/16/16 07:48	06/16/16 22:40	1
2-Chloronaphthalene	ND		7.3	0.67	ug/L		06/16/16 07:48	06/16/16 22:40	1
2-Chlorophenol	ND		7.3	0.77	ug/L		06/16/16 07:48	06/16/16 22:40	1
2-Methylphenol	ND		7.3	0.58	ug/L		06/16/16 07:48	06/16/16 22:40	1
2-Methylnaphthalene	ND		7.3	0.88	ug/L		06/16/16 07:48	06/16/16 22:40	1
2-Nitroaniline	ND		15	0.61	ug/L		06/16/16 07:48	06/16/16 22:40	1
2-Nitrophenol	ND		7.3	0.70	ug/L		06/16/16 07:48	06/16/16 22:40	1
3,3'-Dichlorobenzidine	ND		7.3	0.58	ug/L		06/16/16 07:48	06/16/16 22:40	1
3-Nitroaniline	ND		15	0.70	ug/L		06/16/16 07:48	06/16/16 22:40	1
4,6-Dinitro-2-methylphenol	ND		15	3.2	ug/L		06/16/16 07:48	06/16/16 22:40	1
4-Bromophenyl phenyl ether	ND		7.3	0.66	ug/L		06/16/16 07:48	06/16/16 22:40	1
4-Chloro-3-methylphenol	ND		7.3	0.66	ug/L		06/16/16 07:48	06/16/16 22:40	1
4-Chloroaniline	ND		7.3	0.86	ug/L		06/16/16 07:48	06/16/16 22:40	1
4-Chlorophenyl phenyl ether	ND		7.3	0.51	ug/L		06/16/16 07:48	06/16/16 22:40	1
4-Methylphenol	ND		15	0.53	ug/L		06/16/16 07:48	06/16/16 22:40	1
4-Nitroaniline	ND		15	0.36	ug/L		06/16/16 07:48	06/16/16 22:40	1
4-Nitrophenol	ND		15	2.2	ug/L		06/16/16 07:48	06/16/16 22:40	1
Acenaphthene	ND		7.3	0.60	ug/L		06/16/16 07:48	06/16/16 22:40	1
Acenaphthylene	ND		7.3	0.55	ug/L		06/16/16 07:48	06/16/16 22:40	1
Acetophenone	ND		7.3	0.79	ug/L		06/16/16 07:48	06/16/16 22:40	1
Anthracene	ND		7.3	0.41	ug/L		06/16/16 07:48	06/16/16 22:40	1
Atrazine	ND		7.3	0.67	ug/L		06/16/16 07:48	06/16/16 22:40	1
Benzaldehyde	ND		7.3	0.39	ug/L		06/16/16 07:48	06/16/16 22:40	1
Benzo[a]anthracene	ND		7.3	0.53	ug/L		06/16/16 07:48	06/16/16 22:40	1
Benzo[a]pyrene	ND		7.3	0.69	ug/L		06/16/16 07:48	06/16/16 22:40	1
Benzo[b]fluoranthene	ND		7.3	0.50	ug/L		06/16/16 07:48	06/16/16 22:40	1
Benzo[g,h,i]perylene	ND		7.3	0.51	ug/L		06/16/16 07:48	06/16/16 22:40	1
Benzo[k]fluoranthene	ND		7.3	1.1	ug/L		06/16/16 07:48	06/16/16 22:40	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-4**

**Lab Sample ID: 480-101666-10**

**Date Collected: 06/14/16 14:48**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		7.3	0.51	ug/L		06/16/16 07:48	06/16/16 22:40	1
Bis(2-chloroethyl)ether	ND		7.3	0.58	ug/L		06/16/16 07:48	06/16/16 22:40	1
Bis(2-ethylhexyl) phthalate	ND		7.3	3.2	ug/L		06/16/16 07:48	06/16/16 22:40	1
Butyl benzyl phthalate	ND		7.3	1.5	ug/L		06/16/16 07:48	06/16/16 22:40	1
Caprolactam	ND		7.3	3.2	ug/L		06/16/16 07:48	06/16/16 22:40	1
Carbazole	ND		7.3	0.44	ug/L		06/16/16 07:48	06/16/16 22:40	1
Chrysene	ND		7.3	0.48	ug/L		06/16/16 07:48	06/16/16 22:40	1
Dibenz(a,h)anthracene	ND		7.3	0.61	ug/L		06/16/16 07:48	06/16/16 22:40	1
Di-n-butyl phthalate	ND		7.3	0.45	ug/L		06/16/16 07:48	06/16/16 22:40	1
Di-n-octyl phthalate	ND		7.3	0.69	ug/L		06/16/16 07:48	06/16/16 22:40	1
Dibenzofuran	ND		15	0.74	ug/L		06/16/16 07:48	06/16/16 22:40	1
Diethyl phthalate	ND		7.3	0.32	ug/L		06/16/16 07:48	06/16/16 22:40	1
Dimethyl phthalate	ND		7.3	0.53	ug/L		06/16/16 07:48	06/16/16 22:40	1
Fluoranthene	ND		7.3	0.58	ug/L		06/16/16 07:48	06/16/16 22:40	1
Fluorene	ND		7.3	0.53	ug/L		06/16/16 07:48	06/16/16 22:40	1
Hexachlorobenzene	ND		7.3	0.74	ug/L		06/16/16 07:48	06/16/16 22:40	1
Hexachlorobutadiene	ND		7.3	0.99	ug/L		06/16/16 07:48	06/16/16 22:40	1
Hexachlorocyclopentadiene	ND		7.3	0.86	ug/L		06/16/16 07:48	06/16/16 22:40	1
Hexachloroethane	ND		7.3	0.86	ug/L		06/16/16 07:48	06/16/16 22:40	1
Indeno[1,2,3-cd]pyrene	ND		7.3	0.69	ug/L		06/16/16 07:48	06/16/16 22:40	1
Isophorone	ND		7.3	0.63	ug/L		06/16/16 07:48	06/16/16 22:40	1
N-Nitrosodi-n-propylamine	ND		7.3	0.79	ug/L		06/16/16 07:48	06/16/16 22:40	1
N-Nitrosodiphenylamine	ND		7.3	0.74	ug/L		06/16/16 07:48	06/16/16 22:40	1
Naphthalene	ND		7.3	1.1	ug/L		06/16/16 07:48	06/16/16 22:40	1
Nitrobenzene	ND		7.3	0.42	ug/L		06/16/16 07:48	06/16/16 22:40	1
Pentachlorophenol	ND		15	3.2	ug/L		06/16/16 07:48	06/16/16 22:40	1
Phenanthrene	ND		7.3	0.64	ug/L		06/16/16 07:48	06/16/16 22:40	1
Phenol	ND		7.3	0.57	ug/L		06/16/16 07:48	06/16/16 22:40	1
Pyrene	ND		7.3	0.50	ug/L		06/16/16 07:48	06/16/16 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	86		46 - 120	06/16/16 07:48	06/16/16 22:40	1
Phenol-d5 (Surr)	56		16 - 120	06/16/16 07:48	06/16/16 22:40	1
p-Terphenyl-d14 (Surr)	96		67 - 150	06/16/16 07:48	06/16/16 22:40	1
2,4,6-Tribromophenol (Surr)	82		52 - 132	06/16/16 07:48	06/16/16 22:40	1
2-Fluorobiphenyl	78		48 - 120	06/16/16 07:48	06/16/16 22:40	1
2-Fluorophenol (Surr)	72		20 - 120	06/16/16 07:48	06/16/16 22:40	1

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.067	0.012	ug/L		06/16/16 08:00	06/17/16 15:35	1
4,4'-DDE	ND		0.067	0.016	ug/L		06/16/16 08:00	06/17/16 15:35	1
4,4'-DDT	ND		0.067	0.015	ug/L		06/16/16 08:00	06/17/16 15:35	1
Aldrin	ND		0.067	0.011	ug/L		06/16/16 08:00	06/17/16 15:35	1
alpha-BHC	ND		0.067	0.010	ug/L		06/16/16 08:00	06/17/16 15:35	1
alpha-Chlordane	ND		0.067	0.020	ug/L		06/16/16 08:00	06/17/16 15:35	1
beta-BHC	ND		0.067	0.033	ug/L		06/16/16 08:00	06/17/16 15:35	1
delta-BHC	ND		0.067	0.013	ug/L		06/16/16 08:00	06/17/16 15:35	1
Dieldrin	ND		0.067	0.013	ug/L		06/16/16 08:00	06/17/16 15:35	1
Endosulfan I	ND		0.067	0.015	ug/L		06/16/16 08:00	06/17/16 15:35	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-4**

**Lab Sample ID: 480-101666-10**

**Date Collected: 06/14/16 14:48**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	ND		0.067	0.016	ug/L		06/16/16 08:00	06/17/16 15:35	1
Endosulfan sulfate	ND		0.067	0.021	ug/L		06/16/16 08:00	06/17/16 15:35	1
Endrin	ND		0.067	0.019	ug/L		06/16/16 08:00	06/17/16 15:35	1
Endrin aldehyde	ND		0.067	0.022	ug/L		06/16/16 08:00	06/17/16 15:35	1
Endrin ketone	ND		0.067	0.016	ug/L		06/16/16 08:00	06/17/16 15:35	1
gamma-BHC (Lindane)	ND		0.067	0.011	ug/L		06/16/16 08:00	06/17/16 15:35	1
gamma-Chlordane	ND		0.067	0.015	ug/L		06/16/16 08:00	06/17/16 15:35	1
Heptachlor	ND		0.067	0.011	ug/L		06/16/16 08:00	06/17/16 15:35	1
Heptachlor epoxide	ND		0.067	0.010	ug/L		06/16/16 08:00	06/17/16 15:35	1
Methoxychlor	ND		0.067	0.019	ug/L		06/16/16 08:00	06/17/16 15:35	1
Toxaphene	ND		0.67	0.16	ug/L		06/16/16 08:00	06/17/16 15:35	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	25		20 - 120				06/16/16 08:00	06/17/16 15:35	1
DCB Decachlorobiphenyl	28		20 - 120				06/16/16 08:00	06/17/16 15:35	1
Tetrachloro-m-xylene	84		36 - 120				06/16/16 08:00	06/17/16 15:35	1
Tetrachloro-m-xylene	80		36 - 120				06/16/16 08:00	06/17/16 15:35	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.73	0.26	ug/L		06/16/16 07:53	06/17/16 02:43	1
PCB-1221	ND		0.73	0.26	ug/L		06/16/16 07:53	06/17/16 02:43	1
PCB-1232	ND		0.73	0.26	ug/L		06/16/16 07:53	06/17/16 02:43	1
PCB-1242	ND		0.73	0.26	ug/L		06/16/16 07:53	06/17/16 02:43	1
PCB-1248	ND		0.73	0.26	ug/L		06/16/16 07:53	06/17/16 02:43	1
PCB-1254	ND		0.73	0.36	ug/L		06/16/16 07:53	06/17/16 02:43	1
PCB-1260	ND		0.73	0.36	ug/L		06/16/16 07:53	06/17/16 02:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	64		24 - 137				06/16/16 07:53	06/17/16 02:43	1
Tetrachloro-m-xylene	81		24 - 137				06/16/16 07:53	06/17/16 02:43	1
DCB Decachlorobiphenyl	26		19 - 125				06/16/16 07:53	06/17/16 02:43	1
DCB Decachlorobiphenyl	27		19 - 125				06/16/16 07:53	06/17/16 02:43	1

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.67	0.091	ug/L		06/15/16 15:50	06/17/16 13:10	1
Silvex (2,4,5-TP)	ND		0.67	0.067	ug/L		06/15/16 15:50	06/17/16 13:10	1
2,4-D	ND		0.67	0.23	ug/L		06/15/16 15:50	06/17/16 13:10	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4-Dichlorophenylacetic acid	84		35 - 143				06/15/16 15:50	06/17/16 13:10	1
2,4-Dichlorophenylacetic acid	89		35 - 143				06/15/16 15:50	06/17/16 13:10	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	122		0.20		mg/L		06/16/16 07:34	06/16/16 19:15	1
Antimony	ND		0.020		mg/L		06/16/16 07:34	06/16/16 19:15	1
Arsenic	0.048		0.015		mg/L		06/16/16 07:34	06/16/16 19:15	1
Barium	0.85	B	0.0020		mg/L		06/16/16 07:34	06/16/16 19:15	1
Beryllium	0.0051		0.0020		mg/L		06/16/16 07:34	06/16/16 19:15	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-4**

**Lab Sample ID: 480-101666-10**

**Date Collected: 06/14/16 14:48**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0038		0.0020		mg/L		06/16/16 07:34	06/16/16 19:15	1
Calcium	1830		1.0		mg/L		06/16/16 07:34	06/17/16 11:00	2
Chromium	0.17		0.0040		mg/L		06/16/16 07:34	06/16/16 19:15	1
Cobalt	0.12		0.0040		mg/L		06/16/16 07:34	06/16/16 19:15	1
Copper	0.21		0.010		mg/L		06/16/16 07:34	06/16/16 19:15	1
Iron	185		0.050		mg/L		06/16/16 07:34	06/16/16 19:15	1
Lead	0.39		0.010		mg/L		06/16/16 07:34	06/16/16 19:15	1
Magnesium	692		0.40		mg/L		06/16/16 07:34	06/17/16 11:00	2
Manganese	7.4		0.0030		mg/L		06/16/16 07:34	06/16/16 19:15	1
Nickel	0.26		0.010		mg/L		06/16/16 07:34	06/16/16 19:15	1
Potassium	44.6		0.50		mg/L		06/16/16 07:34	06/16/16 19:15	1
Selenium	ND		0.025		mg/L		06/16/16 07:34	06/16/16 19:15	1
Silver	ND		0.0060		mg/L		06/16/16 07:34	06/16/16 19:15	1
Sodium	362		1.0		mg/L		06/16/16 07:34	06/16/16 19:15	1
Thallium	ND		0.020		mg/L		06/16/16 07:34	06/16/16 19:15	1
Vanadium	0.24		0.0050		mg/L		06/16/16 07:34	06/16/16 19:15	1
Zinc	0.82		0.010		mg/L		06/16/16 07:34	06/16/16 19:15	1

**Method: 6010C - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.63		0.20		mg/L		06/17/16 11:15	06/17/16 23:21	1
Antimony	ND		0.020		mg/L		06/17/16 11:15	06/17/16 23:21	1
Arsenic	ND		0.015		mg/L		06/17/16 11:15	06/17/16 23:21	1
Barium	0.027		0.0020		mg/L		06/17/16 11:15	06/17/16 23:21	1
Beryllium	ND		0.0020		mg/L		06/17/16 11:15	06/17/16 23:21	1
Cadmium	ND		0.0020		mg/L		06/17/16 11:15	06/17/16 23:21	1
Calcium	230		0.50		mg/L		06/17/16 11:15	06/17/16 23:21	1
Chromium	ND		0.0040		mg/L		06/17/16 11:15	06/17/16 23:21	1
Cobalt	ND		0.0040		mg/L		06/17/16 11:15	06/17/16 23:21	1
Copper	ND		0.010		mg/L		06/17/16 11:15	06/17/16 23:21	1
Iron	0.53		0.050		mg/L		06/17/16 11:15	06/17/16 23:21	1
Lead	ND		0.010		mg/L		06/17/16 11:15	06/17/16 23:21	1
Magnesium	123		0.20		mg/L		06/17/16 11:15	06/17/16 23:21	1
Manganese	0.11		0.0030		mg/L		06/17/16 11:15	06/17/16 23:21	1
Nickel	ND		0.010		mg/L		06/17/16 11:15	06/17/16 23:21	1
Potassium	17.4		0.50		mg/L		06/17/16 11:15	06/17/16 23:21	1
Selenium	ND		0.025		mg/L		06/17/16 11:15	06/17/16 23:21	1
Silver	ND		0.0060		mg/L		06/17/16 11:15	06/17/16 23:21	1
Sodium	437		1.0		mg/L		06/17/16 11:15	06/17/16 23:21	1
Thallium	ND		0.020		mg/L		06/17/16 11:15	06/17/16 23:21	1
Vanadium	ND		0.0050		mg/L		06/17/16 11:15	06/17/16 23:21	1
Zinc	ND		0.010		mg/L		06/17/16 11:15	06/17/16 23:21	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00047		0.00020		mg/L		06/16/16 06:55	06/16/16 11:43	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/17/16 11:30	06/17/16 14:35	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-4**

**Lab Sample ID: 480-101666-10**

**Date Collected: 06/14/16 14:48**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.036		0.010		mg/L		06/16/16 10:12	06/17/16 09:29	1

1

2

3

4

5

6

7

8

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15

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-5**

**Lab Sample ID: 480-101666-11**

**Date Collected: 06/14/16 16:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	1.0	0.82	ug/L			06/16/16 05:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/16/16 05:13	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/16/16 05:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/16/16 05:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/16/16 05:13	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/16/16 05:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/16/16 05:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/16/16 05:13	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/16/16 05:13	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/16/16 05:13	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/16/16 05:13	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/16/16 05:13	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/16/16 05:13	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/16/16 05:13	1
2-Hexanone	ND		5.0	1.2	ug/L			06/16/16 05:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/16/16 05:13	1
Acetone	ND		10	3.0	ug/L			06/16/16 05:13	1
Benzene	ND		1.0	0.41	ug/L			06/16/16 05:13	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/16/16 05:13	1
Bromoform	ND		1.0	0.26	ug/L			06/16/16 05:13	1
Bromomethane	ND		1.0	0.69	ug/L			06/16/16 05:13	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/16/16 05:13	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/16/16 05:13	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/16/16 05:13	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/16/16 05:13	1
Chloroethane	ND		1.0	0.32	ug/L			06/16/16 05:13	1
Chloroform	ND		1.0	0.34	ug/L			06/16/16 05:13	1
Chloromethane	ND		1.0	0.35	ug/L			06/16/16 05:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/16/16 05:13	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/16/16 05:13	1
Cyclohexane	ND		1.0	0.18	ug/L			06/16/16 05:13	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/16/16 05:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/16/16 05:13	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/16/16 05:13	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/16/16 05:13	1
Methyl acetate	ND		2.5	1.3	ug/L			06/16/16 05:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/16/16 05:13	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/16/16 05:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/16/16 05:13	1
Styrene	ND		1.0	0.73	ug/L			06/16/16 05:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/16/16 05:13	1
Toluene	ND		1.0	0.51	ug/L			06/16/16 05:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/16/16 05:13	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/16/16 05:13	1
Trichloroethene	ND		1.0	0.46	ug/L			06/16/16 05:13	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/16/16 05:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/16/16 05:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/16/16 05:13	1

TestAmerica Buffalo



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-5**

**Lab Sample ID: 480-101666-11**

**Date Collected: 06/14/16 16:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		71 - 126		06/16/16 05:13	1
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		06/16/16 05:13	1
4-Bromofluorobenzene (Surr)	115		73 - 120		06/16/16 05:13	1
Dibromofluoromethane (Surr)	91		60 - 140		06/16/16 05:13	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4.9	0.63	ug/L		06/16/16 07:48	06/16/16 23:09	1
bis (2-chloroisopropyl) ether	ND		4.9	0.51	ug/L		06/16/16 07:48	06/16/16 23:09	1
2,4,5-Trichlorophenol	ND		4.9	0.47	ug/L		06/16/16 07:48	06/16/16 23:09	1
2,4,6-Trichlorophenol	ND		4.9	0.59	ug/L		06/16/16 07:48	06/16/16 23:09	1
2,4-Dichlorophenol	ND		4.9	0.50	ug/L		06/16/16 07:48	06/16/16 23:09	1
2,4-Dimethylphenol	ND		4.9	0.49	ug/L		06/16/16 07:48	06/16/16 23:09	1
2,4-Dinitrophenol	ND		9.7	2.2	ug/L		06/16/16 07:48	06/16/16 23:09	1
2,4-Dinitrotoluene	ND		4.9	0.43	ug/L		06/16/16 07:48	06/16/16 23:09	1
2,6-Dinitrotoluene	ND		4.9	0.39	ug/L		06/16/16 07:48	06/16/16 23:09	1
2-Chloronaphthalene	ND		4.9	0.45	ug/L		06/16/16 07:48	06/16/16 23:09	1
2-Chlorophenol	ND		4.9	0.51	ug/L		06/16/16 07:48	06/16/16 23:09	1
2-Methylphenol	ND		4.9	0.39	ug/L		06/16/16 07:48	06/16/16 23:09	1
2-Methylnaphthalene	ND		4.9	0.58	ug/L		06/16/16 07:48	06/16/16 23:09	1
2-Nitroaniline	ND		9.7	0.41	ug/L		06/16/16 07:48	06/16/16 23:09	1
2-Nitrophenol	ND		4.9	0.47	ug/L		06/16/16 07:48	06/16/16 23:09	1
3,3'-Dichlorobenzidine	ND		4.9	0.39	ug/L		06/16/16 07:48	06/16/16 23:09	1
3-Nitroaniline	ND		9.7	0.47	ug/L		06/16/16 07:48	06/16/16 23:09	1
4,6-Dinitro-2-methylphenol	ND		9.7	2.1	ug/L		06/16/16 07:48	06/16/16 23:09	1
4-Bromophenyl phenyl ether	ND		4.9	0.44	ug/L		06/16/16 07:48	06/16/16 23:09	1
4-Chloro-3-methylphenol	ND		4.9	0.44	ug/L		06/16/16 07:48	06/16/16 23:09	1
4-Chloroaniline	ND		4.9	0.57	ug/L		06/16/16 07:48	06/16/16 23:09	1
4-Chlorophenyl phenyl ether	ND		4.9	0.34	ug/L		06/16/16 07:48	06/16/16 23:09	1
4-Methylphenol	ND		9.7	0.35	ug/L		06/16/16 07:48	06/16/16 23:09	1
4-Nitroaniline	ND		9.7	0.24	ug/L		06/16/16 07:48	06/16/16 23:09	1
4-Nitrophenol	ND		9.7	1.5	ug/L		06/16/16 07:48	06/16/16 23:09	1
Acenaphthene	ND		4.9	0.40	ug/L		06/16/16 07:48	06/16/16 23:09	1
Acenaphthylene	ND		4.9	0.37	ug/L		06/16/16 07:48	06/16/16 23:09	1
Acetophenone	ND		4.9	0.52	ug/L		06/16/16 07:48	06/16/16 23:09	1
Anthracene	ND		4.9	0.27	ug/L		06/16/16 07:48	06/16/16 23:09	1
Atrazine	ND		4.9	0.45	ug/L		06/16/16 07:48	06/16/16 23:09	1
Benzaldehyde	ND		4.9	0.26	ug/L		06/16/16 07:48	06/16/16 23:09	1
Benzo[a]anthracene	ND		4.9	0.35	ug/L		06/16/16 07:48	06/16/16 23:09	1
Benzo[a]pyrene	ND		4.9	0.46	ug/L		06/16/16 07:48	06/16/16 23:09	1
Benzo[b]fluoranthene	ND		4.9	0.33	ug/L		06/16/16 07:48	06/16/16 23:09	1
Benzo[g,h,i]perylene	ND		4.9	0.34	ug/L		06/16/16 07:48	06/16/16 23:09	1
Benzo[k]fluoranthene	ND		4.9	0.71	ug/L		06/16/16 07:48	06/16/16 23:09	1
Bis(2-chloroethoxy)methane	ND		4.9	0.34	ug/L		06/16/16 07:48	06/16/16 23:09	1
Bis(2-chloroethyl)ether	ND		4.9	0.39	ug/L		06/16/16 07:48	06/16/16 23:09	1
Bis(2-ethylhexyl) phthalate	ND		4.9	2.1	ug/L		06/16/16 07:48	06/16/16 23:09	1
Butyl benzyl phthalate	ND		4.9	0.97	ug/L		06/16/16 07:48	06/16/16 23:09	1
Caprolactam	ND		4.9	2.1	ug/L		06/16/16 07:48	06/16/16 23:09	1
Carbazole	ND		4.9	0.29	ug/L		06/16/16 07:48	06/16/16 23:09	1
Chrysene	ND		4.9	0.32	ug/L		06/16/16 07:48	06/16/16 23:09	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-5**

**Lab Sample ID: 480-101666-11**

**Date Collected: 06/14/16 16:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		4.9	0.41	ug/L		06/16/16 07:48	06/16/16 23:09	1
Di-n-butyl phthalate	ND		4.9	0.30	ug/L		06/16/16 07:48	06/16/16 23:09	1
Di-n-octyl phthalate	ND		4.9	0.46	ug/L		06/16/16 07:48	06/16/16 23:09	1
Dibenzofuran	ND		9.7	0.50	ug/L		06/16/16 07:48	06/16/16 23:09	1
Diethyl phthalate	ND		4.9	0.21	ug/L		06/16/16 07:48	06/16/16 23:09	1
Dimethyl phthalate	ND		4.9	0.35	ug/L		06/16/16 07:48	06/16/16 23:09	1
Fluoranthene	ND		4.9	0.39	ug/L		06/16/16 07:48	06/16/16 23:09	1
Fluorene	ND		4.9	0.35	ug/L		06/16/16 07:48	06/16/16 23:09	1
Hexachlorobenzene	ND		4.9	0.50	ug/L		06/16/16 07:48	06/16/16 23:09	1
Hexachlorobutadiene	ND		4.9	0.66	ug/L		06/16/16 07:48	06/16/16 23:09	1
Hexachlorocyclopentadiene	ND		4.9	0.57	ug/L		06/16/16 07:48	06/16/16 23:09	1
Hexachloroethane	ND		4.9	0.57	ug/L		06/16/16 07:48	06/16/16 23:09	1
Indeno[1,2,3-cd]pyrene	ND		4.9	0.46	ug/L		06/16/16 07:48	06/16/16 23:09	1
Isophorone	ND		4.9	0.42	ug/L		06/16/16 07:48	06/16/16 23:09	1
N-Nitrosodi-n-propylamine	ND		4.9	0.52	ug/L		06/16/16 07:48	06/16/16 23:09	1
N-Nitrosodiphenylamine	ND		4.9	0.50	ug/L		06/16/16 07:48	06/16/16 23:09	1
Naphthalene	ND		4.9	0.74	ug/L		06/16/16 07:48	06/16/16 23:09	1
Nitrobenzene	ND		4.9	0.28	ug/L		06/16/16 07:48	06/16/16 23:09	1
Pentachlorophenol	ND		9.7	2.1	ug/L		06/16/16 07:48	06/16/16 23:09	1
Phenanthrene	ND		4.9	0.43	ug/L		06/16/16 07:48	06/16/16 23:09	1
Phenol	ND		4.9	0.38	ug/L		06/16/16 07:48	06/16/16 23:09	1
Pyrene	ND		4.9	0.33	ug/L		06/16/16 07:48	06/16/16 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	83		46 - 120	06/16/16 07:48	06/16/16 23:09	1
Phenol-d5 (Surr)	44		16 - 120	06/16/16 07:48	06/16/16 23:09	1
p-Terphenyl-d14 (Surr)	103		67 - 150	06/16/16 07:48	06/16/16 23:09	1
2,4,6-Tribromophenol (Surr)	85		52 - 132	06/16/16 07:48	06/16/16 23:09	1
2-Fluorobiphenyl	77		48 - 120	06/16/16 07:48	06/16/16 23:09	1
2-Fluorophenol (Surr)	63		20 - 120	06/16/16 07:48	06/16/16 23:09	1

## Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0091	ug/L		06/16/16 08:00	06/17/16 15:54	1
4,4'-DDE	ND		0.050	0.012	ug/L		06/16/16 08:00	06/17/16 15:54	1
4,4'-DDT	ND		0.050	0.011	ug/L		06/16/16 08:00	06/17/16 15:54	1
Aldrin	ND		0.050	0.0081	ug/L		06/16/16 08:00	06/17/16 15:54	1
alpha-BHC	ND		0.050	0.0077	ug/L		06/16/16 08:00	06/17/16 15:54	1
alpha-Chlordane	ND		0.050	0.015	ug/L		06/16/16 08:00	06/17/16 15:54	1
beta-BHC	ND		0.050	0.025	ug/L		06/16/16 08:00	06/17/16 15:54	1
delta-BHC	ND		0.050	0.0099	ug/L		06/16/16 08:00	06/17/16 15:54	1
Dieldrin	ND		0.050	0.0097	ug/L		06/16/16 08:00	06/17/16 15:54	1
Endosulfan I	ND		0.050	0.011	ug/L		06/16/16 08:00	06/17/16 15:54	1
Endosulfan II	ND		0.050	0.012	ug/L		06/16/16 08:00	06/17/16 15:54	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		06/16/16 08:00	06/17/16 15:54	1
Endrin	ND		0.050	0.014	ug/L		06/16/16 08:00	06/17/16 15:54	1
Endrin aldehyde	ND		0.050	0.016	ug/L		06/16/16 08:00	06/17/16 15:54	1
Endrin ketone	ND		0.050	0.012	ug/L		06/16/16 08:00	06/17/16 15:54	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		06/16/16 08:00	06/17/16 15:54	1
gamma-Chlordane	ND		0.050	0.011	ug/L		06/16/16 08:00	06/17/16 15:54	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-5**

**Lab Sample ID: 480-101666-11**

**Date Collected: 06/14/16 16:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.050	0.0084	ug/L		06/16/16 08:00	06/17/16 15:54	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		06/16/16 08:00	06/17/16 15:54	1
Methoxychlor	ND		0.050	0.014	ug/L		06/16/16 08:00	06/17/16 15:54	1
Toxaphene	ND		0.50	0.12	ug/L		06/16/16 08:00	06/17/16 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	21		20 - 120	06/16/16 08:00	06/17/16 15:54	1
DCB Decachlorobiphenyl	24		20 - 120	06/16/16 08:00	06/17/16 15:54	1
Tetrachloro-m-xylene	75		36 - 120	06/16/16 08:00	06/17/16 15:54	1
Tetrachloro-m-xylene	82		36 - 120	06/16/16 08:00	06/17/16 15:54	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.49	0.17	ug/L		06/16/16 07:53	06/17/16 02:59	1
PCB-1221	ND		0.49	0.17	ug/L		06/16/16 07:53	06/17/16 02:59	1
PCB-1232	ND		0.49	0.17	ug/L		06/16/16 07:53	06/17/16 02:59	1
PCB-1242	ND		0.49	0.17	ug/L		06/16/16 07:53	06/17/16 02:59	1
PCB-1248	ND		0.49	0.17	ug/L		06/16/16 07:53	06/17/16 02:59	1
PCB-1254	ND		0.49	0.24	ug/L		06/16/16 07:53	06/17/16 02:59	1
PCB-1260	ND		0.49	0.24	ug/L		06/16/16 07:53	06/17/16 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		24 - 137	06/16/16 07:53	06/17/16 02:59	1
Tetrachloro-m-xylene	92		24 - 137	06/16/16 07:53	06/17/16 02:59	1
DCB Decachlorobiphenyl	35		19 - 125	06/16/16 07:53	06/17/16 02:59	1
DCB Decachlorobiphenyl	36		19 - 125	06/16/16 07:53	06/17/16 02:59	1

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.065	ug/L		06/15/16 15:50	06/17/16 14:20	1
Silvex (2,4,5-TP)	ND		0.48	0.048	ug/L		06/15/16 15:50	06/17/16 14:20	1
2,4-D	ND		0.48	0.16	ug/L		06/15/16 15:50	06/17/16 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	102		35 - 143	06/15/16 15:50	06/17/16 14:20	1
2,4-Dichlorophenylacetic acid	110		35 - 143	06/15/16 15:50	06/17/16 14:20	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15.0		0.20		mg/L		06/16/16 07:34	06/16/16 19:18	1
Antimony	ND		0.020		mg/L		06/16/16 07:34	06/16/16 19:18	1
Arsenic	ND		0.015		mg/L		06/16/16 07:34	06/16/16 19:18	1
Barium	0.18	B	0.0020		mg/L		06/16/16 07:34	06/16/16 19:18	1
Beryllium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 19:18	1
Cadmium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 19:18	1
Calcium	164		0.50		mg/L		06/16/16 07:34	06/16/16 19:18	1
Chromium	0.018		0.0040		mg/L		06/16/16 07:34	06/16/16 19:18	1
Cobalt	0.0071		0.0040		mg/L		06/16/16 07:34	06/16/16 19:18	1
Copper	0.016		0.010		mg/L		06/16/16 07:34	06/16/16 19:18	1
Iron	17.8		0.050		mg/L		06/16/16 07:34	06/16/16 19:18	1
Lead	0.032		0.010		mg/L		06/16/16 07:34	06/16/16 19:18	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-5**

**Lab Sample ID: 480-101666-11**

**Date Collected: 06/14/16 16:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

### Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	66.6		0.20		mg/L		06/16/16 07:34	06/16/16 19:18	1
Manganese	0.54		0.0030		mg/L		06/16/16 07:34	06/16/16 19:18	1
Nickel	0.017		0.010		mg/L		06/16/16 07:34	06/16/16 19:18	1
Potassium	8.0		0.50		mg/L		06/16/16 07:34	06/16/16 19:18	1
Selenium	ND		0.025		mg/L		06/16/16 07:34	06/16/16 19:18	1
Silver	ND		0.0060		mg/L		06/16/16 07:34	06/16/16 19:18	1
Sodium	566		1.0		mg/L		06/16/16 07:34	06/16/16 19:18	1
Thallium	ND		0.020		mg/L		06/16/16 07:34	06/16/16 19:18	1
Vanadium	0.026		0.0050		mg/L		06/16/16 07:34	06/16/16 19:18	1
Zinc	0.090		0.010		mg/L		06/16/16 07:34	06/16/16 19:18	1

### Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		06/17/16 11:15	06/17/16 23:28	1
Antimony	ND		0.020		mg/L		06/17/16 11:15	06/17/16 23:28	1
Arsenic	ND		0.015		mg/L		06/17/16 11:15	06/17/16 23:28	1
Barium	0.032		0.0020		mg/L		06/17/16 11:15	06/17/16 23:28	1
Beryllium	ND		0.0020		mg/L		06/17/16 11:15	06/17/16 23:28	1
Cadmium	ND		0.0020		mg/L		06/17/16 11:15	06/17/16 23:28	1
Calcium	70.0		0.50		mg/L		06/17/16 11:15	06/17/16 23:28	1
Chromium	ND		0.0040		mg/L		06/17/16 11:15	06/17/16 23:28	1
Cobalt	ND		0.0040		mg/L		06/17/16 11:15	06/17/16 23:28	1
Copper	ND		0.010		mg/L		06/17/16 11:15	06/17/16 23:28	1
Iron	ND		0.050		mg/L		06/17/16 11:15	06/17/16 23:28	1
Lead	ND		0.010		mg/L		06/17/16 11:15	06/17/16 23:28	1
Magnesium	27.4		0.20		mg/L		06/17/16 11:15	06/17/16 23:28	1
Manganese	0.027		0.0030		mg/L		06/17/16 11:15	06/17/16 23:28	1
Nickel	ND		0.010		mg/L		06/17/16 11:15	06/17/16 23:28	1
Potassium	2.6		0.50		mg/L		06/17/16 11:15	06/17/16 23:28	1
Selenium	ND		0.025		mg/L		06/17/16 11:15	06/17/16 23:28	1
Silver	ND		0.0060		mg/L		06/17/16 11:15	06/17/16 23:28	1
Sodium	569		1.0		mg/L		06/17/16 11:15	06/17/16 23:28	1
Thallium	ND		0.020		mg/L		06/17/16 11:15	06/17/16 23:28	1
Vanadium	ND		0.0050		mg/L		06/17/16 11:15	06/17/16 23:28	1
Zinc	ND		0.010		mg/L		06/17/16 11:15	06/17/16 23:28	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/16/16 06:55	06/16/16 11:44	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/17/16 11:30	06/17/16 14:36	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		06/16/16 10:12	06/17/16 09:30	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 480-101666-13**

**Date Collected: 06/14/16 18:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/16/16 17:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/16/16 17:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/16/16 17:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/16/16 17:59	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/16/16 17:59	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/16/16 17:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/16/16 17:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/16/16 17:59	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/16/16 17:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/16/16 17:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/16/16 17:59	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/16/16 17:59	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/16/16 17:59	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/16/16 17:59	1
2-Hexanone	ND		5.0	1.2	ug/L			06/16/16 17:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/16/16 17:59	1
Acetone	ND		10	3.0	ug/L			06/16/16 17:59	1
Benzene	ND		1.0	0.41	ug/L			06/16/16 17:59	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/16/16 17:59	1
Bromoform	ND		1.0	0.26	ug/L			06/16/16 17:59	1
Bromomethane	ND		1.0	0.69	ug/L			06/16/16 17:59	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/16/16 17:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/16/16 17:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/16/16 17:59	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/16/16 17:59	1
Chloroethane	ND		1.0	0.32	ug/L			06/16/16 17:59	1
Chloroform	ND		1.0	0.34	ug/L			06/16/16 17:59	1
Chloromethane	ND		1.0	0.35	ug/L			06/16/16 17:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/16/16 17:59	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/16/16 17:59	1
Cyclohexane	ND		1.0	0.18	ug/L			06/16/16 17:59	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/16/16 17:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/16/16 17:59	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/16/16 17:59	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/16/16 17:59	1
Methyl acetate	ND		2.5	1.3	ug/L			06/16/16 17:59	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/16/16 17:59	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/16/16 17:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/16/16 17:59	1
Styrene	ND		1.0	0.73	ug/L			06/16/16 17:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/16/16 17:59	1
Toluene	ND		1.0	0.51	ug/L			06/16/16 17:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/16/16 17:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/16/16 17:59	1
Trichloroethene	ND		1.0	0.46	ug/L			06/16/16 17:59	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/16/16 17:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/16/16 17:59	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/16/16 17:59	1

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 480-101666-13**

**Date Collected: 06/14/16 18:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	96		71 - 126		06/16/16 17:59	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	107		66 - 137		06/16/16 17:59	1
<i>4-Bromofluorobenzene (Surr)</i>	94		73 - 120		06/16/16 17:59	1
<i>Dibromofluoromethane (Surr)</i>	112		60 - 140		06/16/16 17:59	1

# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (71-126)	12DCE (66-137)	BFB (73-120)	DBFM (60-140)
480-101666-1	R1 MW-3	94	101	110	95
480-101666-2	R1 MW-10	93	98	113	92
480-101666-3	R1 MW-8	94	101	115	92
480-101666-4	BLIND DUP	93	104	113	95
480-101666-5	R1 MW-6	90	100	114	93
480-101666-6	R1 MW-9	92	105	112	92
480-101666-6 - DL	R1 MW-9	94	103	93	108
480-101666-7	R1 MW-7	92	101	114	95
480-101666-7 MS	R1 MW-7	93	97	120	92
480-101666-7 MSD	R1 MW-7	94	104	116	96
480-101666-8	R1 MW-2	92	104	114	93
480-101666-9	R1 MW-1	93	107	115	99
480-101666-10	R1 MW-4	90	102	115	97
480-101666-10 - DL	R1 MW-4	94	103	93	108
480-101666-11	R1 MW-5	92	100	115	91
480-101666-13	TRIP BLANK	96	107	94	112
LCS 480-306892/4	Lab Control Sample	93	103	115	98
LCS 480-306967/5	Lab Control Sample	100	94	103	95
LCS 480-307089/5	Lab Control Sample	101	96	103	100
MB 480-306892/6	Method Blank	93	99	113	92
MB 480-306967/7	Method Blank	96	101	96	104
MB 480-307089/7	Method Blank	93	104	94	107

**Surrogate Legend**

- TOL = Toluene-d8 (Surr)
- 12DCE = 1,2-Dichloroethane-d4 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (46-120)	PHL (16-120)	TPH (67-150)	TBP (52-132)	FBP (48-120)	2FP (20-120)
480-101666-1	R1 MW-3	80	43	89	85	78	63
480-101666-2	R1 MW-10	88	50	97	90	86	71
480-101666-3	R1 MW-8	79	42	92	85	75	59
480-101666-4	BLIND DUP	79	46	98	89	78	61
480-101666-5	R1 MW-6	85	48	100	94	82	68
480-101666-6	R1 MW-9	67	37	85	79	67	49
480-101666-7	R1 MW-7	77	41	89	83	74	58
480-101666-7 MS	R1 MW-7	90	54	95	94	88	70
480-101666-7 MSD	R1 MW-7	89	56	95	88	87	75
480-101666-8	R1 MW-2	92	58	100	109	92	74
480-101666-9	R1 MW-1	72	40	85	77	66	56
480-101666-10	R1 MW-4	86	56	96	82	78	72
480-101666-11	R1 MW-5	83	44	103	85	77	63
LCS 480-306932/2-A	Lab Control Sample	92	58	99	92	91	75

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# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (46-120)	PHL (16-120)	TPH (67-150)	TBP (52-132)	FBP (48-120)	2FP (20-120)
LCS 480-307271/2-A	Lab Control Sample	82	49	106	103	87	62
MB 480-306932/1-A	Method Blank	58	37	70	57	58	51
MB 480-307271/1-A	Method Blank	100	53	121	88	96	72

### Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)  
 PHL = Phenol-d5 (Surr)  
 TPH = p-Terphenyl-d14 (Surr)  
 TBP = 2,4,6-Tribromophenol (Surr)  
 FBP = 2-Fluorobiphenyl  
 2FP = 2-Fluorophenol (Surr)

## Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCB1 (20-120)	DCB2 (20-120)	TCX1 (36-120)	TCX2 (36-120)
480-101666-1	R1 MW-3	24	33	78	74
480-101666-2	R1 MW-10	29	44	243 X	108
480-101666-3	R1 MW-8	35	51	60	62
480-101666-4	BLIND DUP	0 X	0 X	280 X	112
480-101666-5	R1 MW-6	35	40	113	69
480-101666-6	R1 MW-9	40	53	323 X	117
480-101666-7	R1 MW-7	42	61	122 X	76
480-101666-7 MS	R1 MW-7	29	37	88	61
480-101666-7 MSD	R1 MW-7	38	53	105	75
480-101666-8	R1 MW-2	33	43	231 X	91
480-101666-9	R1 MW-1	22	27	71	69
480-101666-10	R1 MW-4	25	28	84	80
480-101666-11	R1 MW-5	21	24	75	82
LCS 480-306937/2-A	Lab Control Sample	28	37	74	65
MB 480-306937/1-A	Method Blank	38	44	79	69

### Surrogate Legend

DCB = DCB Decachlorobiphenyl  
 TCX = Tetrachloro-m-xylene

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (24-137)	TCX2 (24-137)	DCB1 (19-125)	DCB2 (19-125)
480-101666-1	R1 MW-3	70	89	42	45
480-101666-2	R1 MW-10	81	84	47	49
480-101666-3	R1 MW-8	75	91	54	54
480-101666-4	BLIND DUP	88	90	48	49
480-101666-5	R1 MW-6	71	93	56	57
480-101666-6	R1 MW-9	95	95	50	51

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# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (24-137)	TCX2 (24-137)	DCB1 (19-125)	DCB2 (19-125)
480-101666-7	R1 MW-7	85	85	55	55
480-101666-7 MS	R1 MW-7	77	85	52	51
480-101666-7 MSD	R1 MW-7	76	80	51	52
480-101666-8	R1 MW-2	79	80	32	34
480-101666-9	R1 MW-1	85	88	31	32
480-101666-10	R1 MW-4	64	81	26	27
480-101666-11	R1 MW-5	89	92	35	36
LCS 480-306934/2-A	Lab Control Sample	97	91	59	60
MB 480-306934/1-A	Method Blank	88	93	59	61

### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

## Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPA1 (35-143)	DCPA2 (35-143)
480-101666-1	R1 MW-3	88	99
480-101666-2	R1 MW-10	91	83
480-101666-3	R1 MW-8	91	78
480-101666-4	BLIND DUP	84	86
480-101666-5	R1 MW-6	80	102
480-101666-6	R1 MW-9	68	69
480-101666-7	R1 MW-7	86	98
480-101666-7 MS	R1 MW-7	83	85
480-101666-7 MSD	R1 MW-7	87	107
480-101666-8	R1 MW-2	99	97
480-101666-9	R1 MW-1	90	90
480-101666-10	R1 MW-4	84	89
480-101666-11	R1 MW-5	102	110
LCS 480-306868/2-A	Lab Control Sample	77	80
MB 480-306868/1-A	Method Blank	92	97

### Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-306892/6

Matrix: Water

Analysis Batch: 306892

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/15/16 22:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/15/16 22:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/15/16 22:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/15/16 22:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/15/16 22:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/15/16 22:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/15/16 22:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/15/16 22:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/15/16 22:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/15/16 22:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/15/16 22:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/15/16 22:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/15/16 22:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/15/16 22:30	1
2-Hexanone	ND		5.0	1.2	ug/L			06/15/16 22:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/15/16 22:30	1
Acetone	ND		10	3.0	ug/L			06/15/16 22:30	1
Benzene	ND		1.0	0.41	ug/L			06/15/16 22:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/15/16 22:30	1
Bromoform	ND		1.0	0.26	ug/L			06/15/16 22:30	1
Bromomethane	ND		1.0	0.69	ug/L			06/15/16 22:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/15/16 22:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/15/16 22:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/15/16 22:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/15/16 22:30	1
Chloroethane	ND		1.0	0.32	ug/L			06/15/16 22:30	1
Chloroform	ND		1.0	0.34	ug/L			06/15/16 22:30	1
Chloromethane	ND		1.0	0.35	ug/L			06/15/16 22:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/15/16 22:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/15/16 22:30	1
Cyclohexane	ND		1.0	0.18	ug/L			06/15/16 22:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/15/16 22:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/15/16 22:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/15/16 22:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/15/16 22:30	1
Methyl acetate	ND		2.5	1.3	ug/L			06/15/16 22:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/15/16 22:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/15/16 22:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/15/16 22:30	1
Styrene	ND		1.0	0.73	ug/L			06/15/16 22:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/15/16 22:30	1
Toluene	ND		1.0	0.51	ug/L			06/15/16 22:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/15/16 22:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/15/16 22:30	1
Trichloroethene	ND		1.0	0.46	ug/L			06/15/16 22:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/15/16 22:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/15/16 22:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/15/16 22:30	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	93		71 - 126		06/15/16 22:30	1
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		06/15/16 22:30	1
4-Bromofluorobenzene (Surr)	113		73 - 120		06/15/16 22:30	1
Dibromofluoromethane (Surr)	92		60 - 140		06/15/16 22:30	1

**Lab Sample ID: LCS 480-306892/4**  
**Matrix: Water**  
**Analysis Batch: 306892**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1,1-Trichloroethane	25.0	32.3	*	ug/L		129	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.8		ug/L		91	70 - 126
1,1,2-Trichloroethane	25.0	26.5		ug/L		106	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.3		ug/L		121	52 - 148
1,1-Dichloroethane	25.0	27.7		ug/L		111	71 - 129
1,1-Dichloroethene	25.0	26.9		ug/L		107	58 - 121
1,2,4-Trichlorobenzene	25.0	22.8		ug/L		91	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.7		ug/L		95	56 - 134
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	80 - 124
1,2-Dichloroethane	25.0	28.7		ug/L		115	75 - 127
1,2-Dichloropropane	25.0	28.0		ug/L		112	76 - 120
1,3-Dichlorobenzene	25.0	23.6		ug/L		94	77 - 120
1,4-Dichlorobenzene	25.0	23.5		ug/L		94	75 - 120
2-Butanone (MEK)	125	153		ug/L		122	57 - 140
2-Hexanone	125	159		ug/L		127	65 - 127
4-Methyl-2-pentanone (MIBK)	125	134		ug/L		107	71 - 125
Acetone	125	141		ug/L		113	56 - 142
Benzene	25.0	27.1		ug/L		108	71 - 124
Bromodichloromethane	25.0	28.2		ug/L		113	80 - 122
Bromoform	25.0	29.4		ug/L		118	52 - 132
Bromomethane	25.0	24.4		ug/L		98	55 - 144
Carbon disulfide	25.0	26.2		ug/L		105	59 - 134
Carbon tetrachloride	25.0	33.3		ug/L		133	72 - 134
Chlorobenzene	25.0	25.2		ug/L		101	72 - 120
Dibromochloromethane	25.0	28.5		ug/L		114	75 - 125
Chloroethane	25.0	26.7		ug/L		107	69 - 136
Chloroform	25.0	27.1		ug/L		108	73 - 127
Chloromethane	25.0	27.0		ug/L		108	68 - 124
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	74 - 124
cis-1,3-Dichloropropene	25.0	27.2		ug/L		109	74 - 124
Cyclohexane	25.0	32.6		ug/L		130	59 - 135
Dichlorodifluoromethane	25.0	25.6		ug/L		103	59 - 135
Ethylbenzene	25.0	24.7		ug/L		99	77 - 123
1,2-Dibromoethane	25.0	25.2		ug/L		101	77 - 120
Isopropylbenzene	25.0	24.3		ug/L		97	77 - 122
Methyl acetate	125	152		ug/L		122	74 - 133
Methyl tert-butyl ether	25.0	26.8		ug/L		107	64 - 127
Methylcyclohexane	25.0	28.1		ug/L		112	61 - 138
Methylene Chloride	25.0	26.3		ug/L		105	57 - 132
Styrene	25.0	25.4		ug/L		101	70 - 130
Tetrachloroethene	25.0	27.4		ug/L		110	74 - 122
Toluene	25.0	25.1		ug/L		100	80 - 122
trans-1,2-Dichloroethene	25.0	28.1		ug/L		112	73 - 127

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-306892/4**

**Matrix: Water**

**Analysis Batch: 306892**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	72 - 123
Trichloroethene	25.0	28.7		ug/L		115	74 - 123
Trichlorofluoromethane	25.0	32.4		ug/L		130	62 - 152
Vinyl chloride	25.0	25.6		ug/L		102	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	93		71 - 126
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	115		73 - 120
Dibromofluoromethane (Surr)	98		60 - 140

**Lab Sample ID: 480-101666-7 MS**

**Matrix: Water**

**Analysis Batch: 306892**

**Client Sample ID: R1 MW-7**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	*	25.0	31.2		ug/L		125	73 - 126
1,1,1,2-Tetrachloroethane	ND		25.0	23.0		ug/L		92	70 - 126
1,1,2-Trichloroethane	ND		25.0	26.0		ug/L		104	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	27.2		ug/L		109	52 - 148
1,1-Dichloroethane	ND		25.0	27.0		ug/L		108	71 - 129
1,1-Dichloroethene	ND		25.0	25.0		ug/L		100	58 - 121
1,2,4-Trichlorobenzene	ND		25.0	24.4		ug/L		98	70 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	22.6		ug/L		90	56 - 134
1,2-Dichlorobenzene	ND		25.0	22.9		ug/L		92	80 - 124
1,2-Dichloroethane	ND		25.0	28.2		ug/L		113	75 - 127
1,2-Dichloropropane	ND		25.0	25.8		ug/L		103	76 - 120
1,3-Dichlorobenzene	ND		25.0	23.3		ug/L		93	77 - 120
1,4-Dichlorobenzene	ND		25.0	23.5		ug/L		94	75 - 120
2-Butanone (MEK)	ND		125	151		ug/L		121	57 - 140
2-Hexanone	ND	F1	125	160	F1	ug/L		128	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	134		ug/L		107	71 - 125
Acetone	14		125	150		ug/L		109	56 - 142
Benzene	ND		25.0	26.1		ug/L		104	71 - 124
Bromodichloromethane	ND		25.0	27.7		ug/L		111	80 - 122
Bromoform	ND		25.0	27.4		ug/L		110	52 - 132
Bromomethane	ND		25.0	25.4		ug/L		102	55 - 144
Carbon disulfide	0.42	J	25.0	24.5		ug/L		96	59 - 134
Carbon tetrachloride	ND	F1	25.0	32.3		ug/L		129	72 - 134
Chlorobenzene	ND		25.0	26.7		ug/L		107	72 - 120
Dibromochloromethane	ND		25.0	26.8		ug/L		107	75 - 125
Chloroethane	ND		25.0	29.8		ug/L		119	69 - 136
Chloroform	ND		25.0	26.0		ug/L		104	73 - 127
Chloromethane	ND		25.0	28.6		ug/L		114	68 - 124
cis-1,2-Dichloroethene	36	F1	25.0	53.8	F1	ug/L		71	74 - 124
cis-1,3-Dichloropropene	ND		25.0	25.6		ug/L		102	74 - 124
Cyclohexane	ND		25.0	28.6		ug/L		114	59 - 135

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-101666-7 MS

Matrix: Water

Analysis Batch: 306892

Client Sample ID: R1 MW-7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND		25.0	25.9		ug/L		103	59 - 135
Ethylbenzene	ND		25.0	24.0		ug/L		96	77 - 123
1,2-Dibromoethane	ND		25.0	26.4		ug/L		106	77 - 120
Isopropylbenzene	ND		25.0	23.5		ug/L		94	77 - 122
Methyl acetate	ND		125	145		ug/L		116	74 - 133
Methyl tert-butyl ether	ND		25.0	25.6		ug/L		102	64 - 127
Methylcyclohexane	ND		25.0	25.9		ug/L		103	61 - 138
Methylene Chloride	ND		25.0	24.8		ug/L		99	57 - 132
Styrene	ND		25.0	25.4		ug/L		102	70 - 130
Tetrachloroethene	0.54	J	25.0	28.4		ug/L		112	74 - 122
Toluene	ND		25.0	25.0		ug/L		100	80 - 122
trans-1,2-Dichloroethene	100	F1	25.0	108	E F1	ug/L		31	73 - 127
trans-1,3-Dichloropropene	ND		25.0	25.2		ug/L		101	72 - 123
Trichloroethene	89	F1	25.0	100	E F1	ug/L		47	74 - 123
Trichlorofluoromethane	ND		25.0	31.9		ug/L		128	62 - 152
Vinyl chloride	ND		25.0	26.6		ug/L		107	65 - 133
<b>MS MS</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
Toluene-d8 (Surr)	93		71 - 126						
1,2-Dichloroethane-d4 (Surr)	97		66 - 137						
4-Bromofluorobenzene (Surr)	120		73 - 120						
Dibromofluoromethane (Surr)	92		60 - 140						

Lab Sample ID: 480-101666-7 MSD

Matrix: Water

Analysis Batch: 306892

Client Sample ID: R1 MW-7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	*	25.0	31.0		ug/L		124	73 - 126	1	15
1,1,1,2-Tetrachloroethane	ND		25.0	22.3		ug/L		89	70 - 126	3	15
1,1,2-Trichloroethane	ND		25.0	26.0		ug/L		104	76 - 122	0	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	27.0		ug/L		108	52 - 148	0	20
1,1-Dichloroethane	ND		25.0	27.8		ug/L		111	71 - 129	3	20
1,1-Dichloroethene	ND		25.0	26.6		ug/L		106	58 - 121	6	16
1,2,4-Trichlorobenzene	ND		25.0	24.0		ug/L		96	70 - 122	2	20
1,2-Dibromo-3-Chloropropane	ND		25.0	22.3		ug/L		89	56 - 134	2	15
1,2-Dichlorobenzene	ND		25.0	22.8		ug/L		91	80 - 124	1	20
1,2-Dichloroethane	ND		25.0	28.3		ug/L		113	75 - 127	0	20
1,2-Dichloropropane	ND		25.0	26.7		ug/L		107	76 - 120	3	20
1,3-Dichlorobenzene	ND		25.0	22.6		ug/L		90	77 - 120	3	20
1,4-Dichlorobenzene	ND		25.0	22.4		ug/L		90	75 - 120	5	20
2-Butanone (MEK)	ND		125	152		ug/L		121	57 - 140	1	20
2-Hexanone	ND	F1	125	160	F1	ug/L		128	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	ND		125	133		ug/L		106	71 - 125	1	35
Acetone	14		125	153		ug/L		112	56 - 142	2	15
Benzene	ND		25.0	26.4		ug/L		106	71 - 124	1	13
Bromodichloromethane	ND		25.0	28.3		ug/L		113	80 - 122	2	15

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-101666-7 MSD**

**Client Sample ID: R1 MW-7**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 306892**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		25.0	27.1		ug/L		108	52 - 132	1	15
Bromomethane	ND		25.0	25.1		ug/L		100	55 - 144	1	15
Carbon disulfide	0.42	J	25.0	24.8		ug/L		97	59 - 134	1	15
Carbon tetrachloride	ND	F1	25.0	33.7	F1	ug/L		135	72 - 134	4	15
Chlorobenzene	ND		25.0	25.6		ug/L		103	72 - 120	4	25
Dibromochloromethane	ND		25.0	26.7		ug/L		107	75 - 125	1	15
Chloroethane	ND		25.0	28.5		ug/L		114	69 - 136	4	15
Chloroform	ND		25.0	27.2		ug/L		109	73 - 127	4	20
Chloromethane	ND		25.0	28.7		ug/L		115	68 - 124	0	15
cis-1,2-Dichloroethene	36	F1	25.0	56.1		ug/L		79	74 - 124	4	15
cis-1,3-Dichloropropene	ND		25.0	25.9		ug/L		104	74 - 124	1	15
Cyclohexane	ND		25.0	29.2		ug/L		117	59 - 135	2	20
Dichlorodifluoromethane	ND		25.0	25.2		ug/L		101	59 - 135	3	20
Ethylbenzene	ND		25.0	23.8		ug/L		95	77 - 123	1	15
1,2-Dibromoethane	ND		25.0	24.9		ug/L		100	77 - 120	6	15
Isopropylbenzene	ND		25.0	24.4		ug/L		98	77 - 122	4	20
Methyl acetate	ND		125	146		ug/L		117	74 - 133	0	20
Methyl tert-butyl ether	ND		25.0	25.2		ug/L		101	64 - 127	2	37
Methylcyclohexane	ND		25.0	26.2		ug/L		105	61 - 138	1	20
Methylene Chloride	ND		25.0	25.2		ug/L		101	57 - 132	2	15
Styrene	ND		25.0	24.9		ug/L		99	70 - 130	2	20
Tetrachloroethene	0.54	J	25.0	27.3		ug/L		107	74 - 122	4	20
Toluene	ND		25.0	24.6		ug/L		99	80 - 122	2	15
trans-1,2-Dichloroethene	100	F1	25.0	112	E F1	ug/L		47	73 - 127	4	20
trans-1,3-Dichloropropene	ND		25.0	24.8		ug/L		99	72 - 123	2	15
Trichloroethene	89	F1	25.0	105	E F1	ug/L		65	74 - 123	4	16
Trichlorofluoromethane	ND		25.0	33.8		ug/L		135	62 - 152	6	20
Vinyl chloride	ND		25.0	26.9		ug/L		107	65 - 133	1	15

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
Toluene-d8 (Surr)	94		71 - 126
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	116		73 - 120
Dibromofluoromethane (Surr)	96		60 - 140

**Lab Sample ID: MB 480-306967/7**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 306967**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/16/16 11:53	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/16/16 11:53	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/16/16 11:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/16/16 11:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/16/16 11:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/16/16 11:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/16/16 11:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/16/16 11:53	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-306967/7**  
**Matrix: Water**  
**Analysis Batch: 306967**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/16/16 11:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/16/16 11:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/16/16 11:53	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/16/16 11:53	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/16/16 11:53	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/16/16 11:53	1
2-Hexanone	ND		5.0	1.2	ug/L			06/16/16 11:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/16/16 11:53	1
Acetone	ND		10	3.0	ug/L			06/16/16 11:53	1
Benzene	ND		1.0	0.41	ug/L			06/16/16 11:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/16/16 11:53	1
Bromoform	ND		1.0	0.26	ug/L			06/16/16 11:53	1
Bromomethane	ND		1.0	0.69	ug/L			06/16/16 11:53	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/16/16 11:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/16/16 11:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/16/16 11:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/16/16 11:53	1
Chloroethane	ND		1.0	0.32	ug/L			06/16/16 11:53	1
Chloroform	ND		1.0	0.34	ug/L			06/16/16 11:53	1
Chloromethane	ND		1.0	0.35	ug/L			06/16/16 11:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/16/16 11:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/16/16 11:53	1
Cyclohexane	ND		1.0	0.18	ug/L			06/16/16 11:53	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/16/16 11:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/16/16 11:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/16/16 11:53	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/16/16 11:53	1
Methyl acetate	ND		2.5	1.3	ug/L			06/16/16 11:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/16/16 11:53	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/16/16 11:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/16/16 11:53	1
Styrene	ND		1.0	0.73	ug/L			06/16/16 11:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/16/16 11:53	1
Toluene	ND		1.0	0.51	ug/L			06/16/16 11:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/16/16 11:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/16/16 11:53	1
Trichloroethene	ND		1.0	0.46	ug/L			06/16/16 11:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/16/16 11:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/16/16 11:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/16/16 11:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		71 - 126		06/16/16 11:53	1
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		06/16/16 11:53	1
4-Bromofluorobenzene (Surr)	96		73 - 120		06/16/16 11:53	1
Dibromofluoromethane (Surr)	104		60 - 140		06/16/16 11:53	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-306967/5**

**Matrix: Water**

**Analysis Batch: 306967**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.3		ug/L		93	73 - 126
1,1,1,2-Tetrachloroethane	25.0	24.3		ug/L		97	70 - 126
1,1,2-Trichloroethane	25.0	24.6		ug/L		98	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.6		ug/L		98	52 - 148
1,1-Dichloroethane	25.0	23.9		ug/L		96	71 - 129
1,1-Dichloroethene	25.0	25.0		ug/L		100	58 - 121
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.2		ug/L		93	56 - 134
1,2-Dichlorobenzene	25.0	23.8		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	22.8		ug/L		91	75 - 127
1,2-Dichloropropane	25.0	25.4		ug/L		102	76 - 120
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	77 - 120
1,4-Dichlorobenzene	25.0	22.7		ug/L		91	75 - 120
2-Butanone (MEK)	125	124		ug/L		99	57 - 140
2-Hexanone	125	138		ug/L		110	65 - 127
4-Methyl-2-pentanone (MIBK)	125	133		ug/L		106	71 - 125
Acetone	125	122		ug/L		98	56 - 142
Benzene	25.0	24.4		ug/L		98	71 - 124
Bromodichloromethane	25.0	24.3		ug/L		97	80 - 122
Bromoform	25.0	26.7		ug/L		107	52 - 132
Bromomethane	25.0	23.1		ug/L		92	55 - 144
Carbon disulfide	25.0	28.1		ug/L		112	59 - 134
Carbon tetrachloride	25.0	24.2		ug/L		97	72 - 134
Chlorobenzene	25.0	24.0		ug/L		96	72 - 120
Dibromochloromethane	25.0	25.6		ug/L		102	75 - 125
Chloroethane	25.0	23.5		ug/L		94	69 - 136
Chloroform	25.0	22.9		ug/L		91	73 - 127
Chloromethane	25.0	19.8		ug/L		79	68 - 124
cis-1,2-Dichloroethene	25.0	24.1		ug/L		96	74 - 124
cis-1,3-Dichloropropene	25.0	26.6		ug/L		106	74 - 124
Cyclohexane	25.0	26.9		ug/L		108	59 - 135
Dichlorodifluoromethane	25.0	21.6		ug/L		86	59 - 135
Ethylbenzene	25.0	25.1		ug/L		100	77 - 123
1,2-Dibromoethane	25.0	25.0		ug/L		100	77 - 120
Isopropylbenzene	25.0	25.9		ug/L		104	77 - 122
Methyl acetate	125	123		ug/L		98	74 - 133
Methyl tert-butyl ether	25.0	25.2		ug/L		101	64 - 127
Methylcyclohexane	25.0	25.6		ug/L		103	61 - 138
Methylene Chloride	25.0	26.0		ug/L		104	57 - 132
Styrene	25.0	27.8		ug/L		111	70 - 130
Tetrachloroethene	25.0	23.9		ug/L		96	74 - 122
Toluene	25.0	25.0		ug/L		100	80 - 122
trans-1,2-Dichloroethene	25.0	24.9		ug/L		99	73 - 127
trans-1,3-Dichloropropene	25.0	26.1		ug/L		104	72 - 123
Trichloroethene	25.0	24.1		ug/L		96	74 - 123
Trichlorofluoromethane	25.0	23.0		ug/L		92	62 - 152
Vinyl chloride	25.0	20.4		ug/L		82	65 - 133

TestAmerica Buffalo



# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-306967/5**  
**Matrix: Water**  
**Analysis Batch: 306967**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		71 - 126
1,2-Dichloroethane-d4 (Surr)	94		66 - 137
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	95		60 - 140

**Lab Sample ID: MB 480-307089/7**  
**Matrix: Water**  
**Analysis Batch: 307089**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/16/16 23:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/16/16 23:12	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/16/16 23:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/16/16 23:12	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/16/16 23:12	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/16/16 23:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/16/16 23:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/16/16 23:12	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/16/16 23:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/16/16 23:12	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/16/16 23:12	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/16/16 23:12	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/16/16 23:12	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/16/16 23:12	1
2-Hexanone	ND		5.0	1.2	ug/L			06/16/16 23:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/16/16 23:12	1
Acetone	ND		10	3.0	ug/L			06/16/16 23:12	1
Benzene	ND		1.0	0.41	ug/L			06/16/16 23:12	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/16/16 23:12	1
Bromoform	ND		1.0	0.26	ug/L			06/16/16 23:12	1
Bromomethane	ND		1.0	0.69	ug/L			06/16/16 23:12	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/16/16 23:12	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/16/16 23:12	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/16/16 23:12	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/16/16 23:12	1
Chloroethane	ND		1.0	0.32	ug/L			06/16/16 23:12	1
Chloroform	ND		1.0	0.34	ug/L			06/16/16 23:12	1
Chloromethane	ND		1.0	0.35	ug/L			06/16/16 23:12	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/16/16 23:12	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/16/16 23:12	1
Cyclohexane	ND		1.0	0.18	ug/L			06/16/16 23:12	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/16/16 23:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/16/16 23:12	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/16/16 23:12	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/16/16 23:12	1
Methyl acetate	ND		2.5	1.3	ug/L			06/16/16 23:12	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/16/16 23:12	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/16/16 23:12	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-307089/7**  
**Matrix: Water**  
**Analysis Batch: 307089**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.44	ug/L			06/16/16 23:12	1
Styrene	ND		1.0	0.73	ug/L			06/16/16 23:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/16/16 23:12	1
Toluene	ND		1.0	0.51	ug/L			06/16/16 23:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/16/16 23:12	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/16/16 23:12	1
Trichloroethene	ND		1.0	0.46	ug/L			06/16/16 23:12	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/16/16 23:12	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/16/16 23:12	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/16/16 23:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		71 - 126		06/16/16 23:12	1
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		06/16/16 23:12	1
4-Bromofluorobenzene (Surr)	94		73 - 120		06/16/16 23:12	1
Dibromofluoromethane (Surr)	107		60 - 140		06/16/16 23:12	1

**Lab Sample ID: LCS 480-307089/5**  
**Matrix: Water**  
**Analysis Batch: 307089**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	73 - 126
1,1,1,2-Tetrachloroethane	25.0	25.7		ug/L		103	70 - 126
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.1		ug/L		104	52 - 148
1,1-Dichloroethane	25.0	25.7		ug/L		103	71 - 129
1,1-Dichloroethene	25.0	27.1		ug/L		108	58 - 121
1,2,4-Trichlorobenzene	25.0	26.7		ug/L		107	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.4		ug/L		98	56 - 134
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	24.2		ug/L		97	75 - 127
1,2-Dichloropropane	25.0	27.2		ug/L		109	76 - 120
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	77 - 120
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	75 - 120
2-Butanone (MEK)	125	139		ug/L		111	57 - 140
2-Hexanone	125	147		ug/L		118	65 - 127
4-Methyl-2-pentanone (MIBK)	125	140		ug/L		112	71 - 125
Acetone	125	148		ug/L		119	56 - 142
Benzene	25.0	26.3		ug/L		105	71 - 124
Bromodichloromethane	25.0	26.2		ug/L		105	80 - 122
Bromoform	25.0	27.1		ug/L		109	52 - 132
Bromomethane	25.0	24.3		ug/L		97	55 - 144
Carbon disulfide	25.0	30.2		ug/L		121	59 - 134
Carbon tetrachloride	25.0	26.0		ug/L		104	72 - 134
Chlorobenzene	25.0	25.2		ug/L		101	72 - 120
Dibromochloromethane	25.0	26.5		ug/L		106	75 - 125

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-307089/5**  
**Matrix: Water**  
**Analysis Batch: 307089**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	25.0	24.7		ug/L		99	69 - 136
Chloroform	25.0	25.2		ug/L		101	73 - 127
Chloromethane	25.0	19.9		ug/L		79	68 - 124
cis-1,2-Dichloroethene	25.0	25.8		ug/L		103	74 - 124
cis-1,3-Dichloropropene	25.0	28.2		ug/L		113	74 - 124
Cyclohexane	25.0	28.4		ug/L		114	59 - 135
Dichlorodifluoromethane	25.0	20.1		ug/L		80	59 - 135
Ethylbenzene	25.0	25.9		ug/L		104	77 - 123
1,2-Dibromoethane	25.0	25.7		ug/L		103	77 - 120
Isopropylbenzene	25.0	27.2		ug/L		109	77 - 122
Methyl acetate	125	130		ug/L		104	74 - 133
Methyl tert-butyl ether	25.0	26.7		ug/L		107	64 - 127
Methylcyclohexane	25.0	27.4		ug/L		109	61 - 138
Methylene Chloride	25.0	28.0		ug/L		112	57 - 132
Styrene	25.0	28.9		ug/L		116	70 - 130
Tetrachloroethene	25.0	25.2		ug/L		101	74 - 122
Toluene	25.0	26.2		ug/L		105	80 - 122
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	73 - 127
trans-1,3-Dichloropropene	25.0	27.6		ug/L		110	72 - 123
Trichloroethene	25.0	25.1		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	23.2		ug/L		93	62 - 152
Vinyl chloride	25.0	20.3		ug/L		81	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		71 - 126
1,2-Dichloroethane-d4 (Surr)	96		66 - 137
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	100		60 - 140

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 480-306932/1-A**  
**Matrix: Water**  
**Analysis Batch: 307034**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 306932**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		06/16/16 07:48	06/16/16 16:28	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/16/16 07:48	06/16/16 16:28	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/16/16 07:48	06/16/16 16:28	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/16/16 07:48	06/16/16 16:28	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/16/16 07:48	06/16/16 16:28	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/16/16 07:48	06/16/16 16:28	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/16/16 07:48	06/16/16 16:28	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/16/16 07:48	06/16/16 16:28	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/16/16 07:48	06/16/16 16:28	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/16/16 07:48	06/16/16 16:28	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/16/16 07:48	06/16/16 16:28	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/16/16 07:48	06/16/16 16:28	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-306932/1-A**  
**Matrix: Water**  
**Analysis Batch: 307034**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 306932**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/16/16 07:48	06/16/16 16:28	1
2-Nitroaniline	ND		10	0.42	ug/L		06/16/16 07:48	06/16/16 16:28	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/16/16 07:48	06/16/16 16:28	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/16/16 07:48	06/16/16 16:28	1
3-Nitroaniline	ND		10	0.48	ug/L		06/16/16 07:48	06/16/16 16:28	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/16/16 07:48	06/16/16 16:28	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/16/16 07:48	06/16/16 16:28	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/16/16 07:48	06/16/16 16:28	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/16/16 07:48	06/16/16 16:28	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/16/16 07:48	06/16/16 16:28	1
4-Methylphenol	ND		10	0.36	ug/L		06/16/16 07:48	06/16/16 16:28	1
4-Nitroaniline	ND		10	0.25	ug/L		06/16/16 07:48	06/16/16 16:28	1
4-Nitrophenol	ND		10	1.5	ug/L		06/16/16 07:48	06/16/16 16:28	1
Acenaphthene	ND		5.0	0.41	ug/L		06/16/16 07:48	06/16/16 16:28	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/16/16 07:48	06/16/16 16:28	1
Acetophenone	ND		5.0	0.54	ug/L		06/16/16 07:48	06/16/16 16:28	1
Anthracene	ND		5.0	0.28	ug/L		06/16/16 07:48	06/16/16 16:28	1
Atrazine	ND		5.0	0.46	ug/L		06/16/16 07:48	06/16/16 16:28	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/16/16 07:48	06/16/16 16:28	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/16/16 07:48	06/16/16 16:28	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/16/16 07:48	06/16/16 16:28	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/16/16 07:48	06/16/16 16:28	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/16/16 07:48	06/16/16 16:28	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/16/16 07:48	06/16/16 16:28	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/16/16 07:48	06/16/16 16:28	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/16/16 07:48	06/16/16 16:28	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/16/16 07:48	06/16/16 16:28	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		06/16/16 07:48	06/16/16 16:28	1
Caprolactam	ND		5.0	2.2	ug/L		06/16/16 07:48	06/16/16 16:28	1
Carbazole	ND		5.0	0.30	ug/L		06/16/16 07:48	06/16/16 16:28	1
Chrysene	ND		5.0	0.33	ug/L		06/16/16 07:48	06/16/16 16:28	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/16/16 07:48	06/16/16 16:28	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		06/16/16 07:48	06/16/16 16:28	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/16/16 07:48	06/16/16 16:28	1
Dibenzofuran	ND		10	0.51	ug/L		06/16/16 07:48	06/16/16 16:28	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/16/16 07:48	06/16/16 16:28	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/16/16 07:48	06/16/16 16:28	1
Fluoranthene	ND		5.0	0.40	ug/L		06/16/16 07:48	06/16/16 16:28	1
Fluorene	ND		5.0	0.36	ug/L		06/16/16 07:48	06/16/16 16:28	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/16/16 07:48	06/16/16 16:28	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/16/16 07:48	06/16/16 16:28	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/16/16 07:48	06/16/16 16:28	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/16/16 07:48	06/16/16 16:28	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/16/16 07:48	06/16/16 16:28	1
Isophorone	ND		5.0	0.43	ug/L		06/16/16 07:48	06/16/16 16:28	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/16/16 07:48	06/16/16 16:28	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/16/16 07:48	06/16/16 16:28	1
Naphthalene	ND		5.0	0.76	ug/L		06/16/16 07:48	06/16/16 16:28	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-306932/1-A**  
**Matrix: Water**  
**Analysis Batch: 307034**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 306932**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		5.0	0.29	ug/L		06/16/16 07:48	06/16/16 16:28	1
Pentachlorophenol	ND		10	2.2	ug/L		06/16/16 07:48	06/16/16 16:28	1
Phenanthrene	ND		5.0	0.44	ug/L		06/16/16 07:48	06/16/16 16:28	1
Phenol	ND		5.0	0.39	ug/L		06/16/16 07:48	06/16/16 16:28	1
Pyrene	ND		5.0	0.34	ug/L		06/16/16 07:48	06/16/16 16:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	58		46 - 120	06/16/16 07:48	06/16/16 16:28	1
Phenol-d5 (Surr)	37		16 - 120	06/16/16 07:48	06/16/16 16:28	1
p-Terphenyl-d14 (Surr)	70		67 - 150	06/16/16 07:48	06/16/16 16:28	1
2,4,6-Tribromophenol (Surr)	57		52 - 132	06/16/16 07:48	06/16/16 16:28	1
2-Fluorobiphenyl	58		48 - 120	06/16/16 07:48	06/16/16 16:28	1
2-Fluorophenol (Surr)	51		20 - 120	06/16/16 07:48	06/16/16 16:28	1

**Lab Sample ID: LCS 480-306932/2-A**  
**Matrix: Water**  
**Analysis Batch: 307034**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306932**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Biphenyl	16.0	14.4		ug/L		90	30 - 140
bis (2-chloroisopropyl) ether	16.0	13.9		ug/L		87	28 - 136
2,4,5-Trichlorophenol	16.0	16.8		ug/L		105	65 - 126
2,4,6-Trichlorophenol	16.0	15.3		ug/L		96	64 - 120
2,4-Dichlorophenol	16.0	14.5		ug/L		91	64 - 120
2,4-Dimethylphenol	16.0	13.9		ug/L		87	57 - 120
2,4-Dinitrophenol	32.0	30.6		ug/L		96	42 - 153
2,4-Dinitrotoluene	16.0	15.9		ug/L		100	65 - 154
2,6-Dinitrotoluene	16.0	14.3		ug/L		89	74 - 134
2-Chloronaphthalene	16.0	14.4		ug/L		90	41 - 124
2-Chlorophenol	16.0	13.8		ug/L		86	48 - 120
2-Methylphenol	16.0	13.5		ug/L		84	39 - 120
2-Methylnaphthalene	16.0	14.3		ug/L		89	34 - 122
2-Nitroaniline	16.0	14.5		ug/L		91	67 - 136
2-Nitrophenol	16.0	15.0		ug/L		93	59 - 120
3,3'-Dichlorobenzidine	32.0	35.1		ug/L		110	33 - 140
3-Nitroaniline	16.0	13.9		ug/L		87	28 - 130
4,6-Dinitro-2-methylphenol	32.0	30.8		ug/L		96	64 - 159
4-Bromophenyl phenyl ether	16.0	14.5		ug/L		91	71 - 126
4-Chloro-3-methylphenol	16.0	15.4		ug/L		96	64 - 120
4-Chloroaniline	16.0	10.4		ug/L		65	10 - 130
4-Chlorophenyl phenyl ether	16.0	14.9		ug/L		93	71 - 122
4-Methylphenol	16.0	13.1		ug/L		82	39 - 120
4-Nitroaniline	16.0	14.4		ug/L		90	47 - 130
4-Nitrophenol	32.0	21.8		ug/L		68	16 - 120
Acenaphthene	16.0	14.4		ug/L		90	60 - 120
Acenaphthylene	16.0	14.5		ug/L		90	63 - 120
Acetophenone	16.0	14.6		ug/L		91	45 - 120
Anthracene	16.0	14.6		ug/L		91	58 - 148

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-306932/2-A**  
**Matrix: Water**  
**Analysis Batch: 307034**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306932**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	32.0	35.0		ug/L		110	56 - 179
Benzaldehyde	32.0	30.5		ug/L		95	30 - 140
Benzo[a]anthracene	16.0	15.7		ug/L		98	55 - 151
Benzo[a]pyrene	16.0	15.7		ug/L		98	60 - 145
Benzo[b]fluoranthene	16.0	16.6		ug/L		104	54 - 140
Benzo[g,h,i]perylene	16.0	16.4		ug/L		103	66 - 152
Benzo[k]fluoranthene	16.0	15.9		ug/L		100	51 - 153
Bis(2-chloroethoxy)methane	16.0	14.7		ug/L		92	50 - 128
Bis(2-chloroethyl)ether	16.0	14.0		ug/L		87	51 - 120
Bis(2-ethylhexyl) phthalate	16.0	16.8		ug/L		105	53 - 158
Butyl benzyl phthalate	16.0	16.6		ug/L		104	58 - 163
Caprolactam	32.0	11.7		ug/L		37	14 - 130
Carbazole	16.0	15.9		ug/L		99	59 - 148
Chrysene	16.0	15.0		ug/L		94	69 - 140
Dibenz(a,h)anthracene	16.0	16.7		ug/L		104	57 - 148
Di-n-butyl phthalate	16.0	16.8		ug/L		105	58 - 149
Di-n-octyl phthalate	16.0	16.4		ug/L		102	55 - 167
Dibenzofuran	16.0	14.6		ug/L		91	49 - 137
Diethyl phthalate	16.0	15.6		ug/L		97	59 - 146
Dimethyl phthalate	16.0	15.7		ug/L		98	59 - 141
Fluoranthene	16.0	16.1		ug/L		100	55 - 147
Fluorene	16.0	15.2		ug/L		95	55 - 143
Hexachlorobenzene	16.0	14.4		ug/L		90	14 - 130
Hexachlorobutadiene	16.0	13.6		ug/L		85	14 - 130
Hexachlorocyclopentadiene	16.0	12.6		ug/L		79	13 - 130
Hexachloroethane	16.0	12.8		ug/L		80	14 - 130
Indeno[1,2,3-cd]pyrene	16.0	16.7		ug/L		104	69 - 146
Isophorone	16.0	15.3		ug/L		95	48 - 133
N-Nitrosodi-n-propylamine	16.0	14.5		ug/L		90	56 - 120
Naphthalene	16.0	14.1		ug/L		88	35 - 130
Nitrobenzene	16.0	14.6		ug/L		92	45 - 123
Pentachlorophenol	32.0	37.8		ug/L		118	39 - 136
Phenanthrene	16.0	15.3		ug/L		96	57 - 147
Phenol	16.0	9.33		ug/L		58	17 - 120
Pyrene	16.0	15.0		ug/L		94	58 - 136

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	92		46 - 120
Phenol-d5 (Surr)	58		16 - 120
p-Terphenyl-d14 (Surr)	99		67 - 150
2,4,6-Tribromophenol (Surr)	92		52 - 132
2-Fluorobiphenyl	91		48 - 120
2-Fluorophenol (Surr)	75		20 - 120

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-101666-7 MS**

**Matrix: Water**

**Analysis Batch: 307034**

**Client Sample ID: R1 MW-7**

**Prep Type: Total/NA**

**Prep Batch: 306932**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Biphenyl	ND		15.1	13.4		ug/L		89	30 - 140
bis (2-chloroisopropyl) ether	ND		15.1	12.2		ug/L		81	28 - 136
2,4,5-Trichlorophenol	ND		15.1	14.3		ug/L		95	65 - 126
2,4,6-Trichlorophenol	ND		15.1	14.2		ug/L		94	64 - 120
2,4-Dichlorophenol	ND		15.1	13.7		ug/L		91	64 - 120
2,4-Dimethylphenol	ND		15.1	13.9		ug/L		92	57 - 120
2,4-Dinitrophenol	ND		30.2	31.3		ug/L		104	42 - 153
2,4-Dinitrotoluene	ND		15.1	15.0		ug/L		100	62 - 148
2,6-Dinitrotoluene	ND		15.1	14.4		ug/L		96	65 - 154
2-Chloronaphthalene	ND		15.1	13.5		ug/L		89	41 - 124
2-Chlorophenol	ND		15.1	12.3		ug/L		81	48 - 120
2-Methylphenol	ND		15.1	12.2		ug/L		81	39 - 120
2-Methylnaphthalene	ND		15.1	13.3		ug/L		88	34 - 122
2-Nitroaniline	ND		15.1	13.6		ug/L		90	67 - 136
2-Nitrophenol	ND		15.1	13.4		ug/L		89	59 - 120
3,3'-Dichlorobenzidine	ND	F1	30.2	8.14	F1	ug/L		27	33 - 140
3-Nitroaniline	ND	F1	15.1	7.98	J F1	ug/L		53	69 - 129
4,6-Dinitro-2-methylphenol	ND		30.2	28.4		ug/L		94	64 - 159
4-Bromophenyl phenyl ether	ND		15.1	14.4		ug/L		95	71 - 126
4-Chloro-3-methylphenol	ND		15.1	15.0		ug/L		100	64 - 120
4-Chloroaniline	ND	F1	15.1	5.96	F1	ug/L		40	60 - 124
4-Chlorophenyl phenyl ether	ND		15.1	14.1		ug/L		94	48 - 145
4-Methylphenol	ND		15.1	11.4		ug/L		76	36 - 120
4-Nitroaniline	ND	F2 F1	15.1	7.94	J F1	ug/L		53	64 - 135
4-Nitrophenol	ND		30.2	20.8		ug/L		69	16 - 120
Acenaphthene	ND		15.1	13.4		ug/L		89	60 - 120
Acenaphthylene	ND		15.1	13.1		ug/L		87	63 - 120
Acetophenone	ND		15.1	13.1		ug/L		87	45 - 120
Anthracene	ND		15.1	13.8		ug/L		92	58 - 148
Atrazine	ND		30.2	31.6		ug/L		105	56 - 179
Benzaldehyde	ND		30.2	26.8		ug/L		89	30 - 140
Benzo[a]anthracene	ND		15.1	14.7		ug/L		97	55 - 151
Benzo[a]pyrene	ND		15.1	15.3		ug/L		101	60 - 145
Benzo[b]fluoranthene	ND		15.1	15.6		ug/L		103	54 - 140
Benzo[g,h,i]perylene	ND		15.1	15.6		ug/L		103	66 - 152
Benzo[k]fluoranthene	ND		15.1	15.8		ug/L		105	51 - 153
Bis(2-chloroethoxy)methane	ND		15.1	13.3		ug/L		88	50 - 128
Bis(2-chloroethyl)ether	ND		15.1	12.7		ug/L		84	51 - 120
Bis(2-ethylhexyl) phthalate	ND		15.1	14.9		ug/L		99	53 - 158
Butyl benzyl phthalate	ND		15.1	15.4		ug/L		102	58 - 163
Caprolactam	ND		30.2	11.8		ug/L		39	30 - 140
Carbazole	ND		15.1	15.8		ug/L		105	59 - 148
Chrysene	ND		15.1	13.6		ug/L		90	69 - 140
Dibenz(a,h)anthracene	ND		15.1	15.3		ug/L		102	57 - 158
Di-n-butyl phthalate	ND		15.1	16.3		ug/L		108	58 - 149
Di-n-octyl phthalate	ND		15.1	14.0		ug/L		93	55 - 167
Dibenzofuran	ND		15.1	13.8		ug/L		92	49 - 137
Diethyl phthalate	ND		15.1	14.8		ug/L		98	59 - 146

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-101666-7 MS**

**Matrix: Water**

**Analysis Batch: 307034**

**Client Sample ID: R1 MW-7**

**Prep Type: Total/NA**

**Prep Batch: 306932**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Dimethyl phthalate	ND		15.1	14.8		ug/L		98	59 - 141
Fluoranthene	ND		15.1	15.7		ug/L		104	55 - 147
Fluorene	ND		15.1	14.3		ug/L		95	55 - 143
Hexachlorobenzene	ND		15.1	13.5		ug/L		89	38 - 131
Hexachlorobutadiene	ND		15.1	12.0		ug/L		80	14 - 130
Hexachlorocyclopentadiene	ND		15.1	12.3		ug/L		82	13 - 130
Hexachloroethane	ND		15.1	11.2		ug/L		74	14 - 130
Indeno[1,2,3-cd]pyrene	ND		15.1	15.6		ug/L		103	69 - 146
Isophorone	ND		15.1	14.1		ug/L		93	48 - 133
N-Nitrosodi-n-propylamine	ND		15.1	13.7		ug/L		91	56 - 120
Naphthalene	ND		15.1	12.5		ug/L		83	35 - 130
Nitrobenzene	ND		15.1	13.3		ug/L		88	45 - 123
Pentachlorophenol	ND		30.2	40.4		ug/L		134	39 - 136
Phenanthrene	0.75	J	15.1	15.4		ug/L		97	57 - 147
Phenol	ND		15.1	8.17		ug/L		54	17 - 120
Pyrene	ND		15.1	14.2		ug/L		94	58 - 136

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	90		46 - 120
Phenol-d5 (Surr)	54		16 - 120
p-Terphenyl-d14 (Surr)	95		67 - 150
2,4,6-Tribromophenol (Surr)	94		52 - 132
2-Fluorobiphenyl	88		48 - 120
2-Fluorophenol (Surr)	70		20 - 120

**Lab Sample ID: 480-101666-7 MSD**

**Matrix: Water**

**Analysis Batch: 307034**

**Client Sample ID: R1 MW-7**

**Prep Type: Total/NA**

**Prep Batch: 306932**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Biphenyl	ND		15.8	13.9		ug/L		88	30 - 140	3	20
bis (2-chloroisopropyl) ether	ND		15.8	13.3		ug/L		84	28 - 136	9	24
2,4,5-Trichlorophenol	ND		15.8	16.2		ug/L		102	65 - 126	12	18
2,4,6-Trichlorophenol	ND		15.8	15.1		ug/L		96	64 - 120	6	19
2,4-Dichlorophenol	ND		15.8	14.0		ug/L		89	64 - 120	2	19
2,4-Dimethylphenol	ND		15.8	13.9		ug/L		88	57 - 120	0	42
2,4-Dinitrophenol	ND		31.6	30.4		ug/L		96	42 - 153	3	22
2,4-Dinitrotoluene	ND		15.8	15.1		ug/L		96	62 - 148	1	20
2,6-Dinitrotoluene	ND		15.8	14.2		ug/L		90	65 - 154	2	15
2-Chloronaphthalene	ND		15.8	13.8		ug/L		88	41 - 124	3	21
2-Chlorophenol	ND		15.8	13.2		ug/L		84	48 - 120	8	25
2-Methylphenol	ND		15.8	12.9		ug/L		81	39 - 120	6	27
2-Methylnaphthalene	ND		15.8	13.3		ug/L		84	34 - 122	0	21
2-Nitroaniline	ND		15.8	13.5		ug/L		86	67 - 136	1	15
2-Nitrophenol	ND		15.8	13.9		ug/L		88	59 - 120	4	18
3,3'-Dichlorobenzidine	ND	F1	31.6	8.01	F1	ug/L		25	33 - 140	2	25
3-Nitroaniline	ND	F1	15.8	8.34	J F1	ug/L		53	69 - 129	4	19
4,6-Dinitro-2-methylphenol	ND		31.6	27.5		ug/L		87	64 - 159	3	15

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# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-101666-7 MSD**

**Matrix: Water**

**Analysis Batch: 307034**

**Client Sample ID: R1 MW-7**

**Prep Type: Total/NA**

**Prep Batch: 306932**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
4-Bromophenyl phenyl ether	ND		15.8	13.5		ug/L		85	71 - 126	6	15
4-Chloro-3-methylphenol	ND		15.8	14.7		ug/L		93	64 - 120	2	27
4-Chloroaniline	ND	F1	15.8	6.53	F1	ug/L		41	60 - 124	9	22
4-Chlorophenyl phenyl ether	ND		15.8	14.3		ug/L		91	48 - 145	1	16
4-Methylphenol	ND		15.8	12.5		ug/L		79	36 - 120	9	24
4-Nitroaniline	ND	F2 F1	15.8	10.5	F2	ug/L		66	64 - 135	27	24
4-Nitrophenol	ND		31.6	24.0		ug/L		76	16 - 120	14	48
Acenaphthene	ND		15.8	13.6		ug/L		86	60 - 120	1	24
Acenaphthylene	ND		15.8	13.4		ug/L		85	63 - 120	3	18
Acetophenone	ND		15.8	14.1		ug/L		89	45 - 120	7	20
Anthracene	ND		15.8	13.6		ug/L		86	58 - 148	1	15
Atrazine	ND		31.6	30.5		ug/L		97	56 - 179	4	20
Benzaldehyde	ND		31.6	28.6		ug/L		90	30 - 140	6	20
Benzo[a]anthracene	ND		15.8	15.1		ug/L		96	55 - 151	3	15
Benzo[a]pyrene	ND		15.8	15.7		ug/L		100	60 - 145	3	15
Benzo[b]fluoranthene	ND		15.8	16.7		ug/L		106	54 - 140	7	15
Benzo[g,h,i]perylene	ND		15.8	15.9		ug/L		101	66 - 152	2	15
Benzo[k]fluoranthene	ND		15.8	14.9		ug/L		94	51 - 153	6	22
Bis(2-chloroethoxy)methane	ND		15.8	13.7		ug/L		87	50 - 128	3	17
Bis(2-chloroethyl)ether	ND		15.8	13.9		ug/L		88	51 - 120	9	21
Bis(2-ethylhexyl) phthalate	ND		15.8	15.3		ug/L		97	53 - 158	3	15
Butyl benzyl phthalate	ND		15.8	16.7		ug/L		106	58 - 163	8	16
Caprolactam	ND		31.6	11.1		ug/L		35	30 - 140	6	20
Carbazole	ND		15.8	14.8		ug/L		94	59 - 148	7	20
Chrysene	ND		15.8	14.7		ug/L		93	69 - 140	7	15
Dibenz(a,h)anthracene	ND		15.8	15.9		ug/L		101	57 - 158	3	15
Di-n-butyl phthalate	ND		15.8	15.8		ug/L		100	58 - 149	4	15
Di-n-octyl phthalate	ND		15.8	14.2		ug/L		90	55 - 167	1	16
Dibenzofuran	ND		15.8	14.0		ug/L		89	49 - 137	1	15
Diethyl phthalate	ND		15.8	14.7		ug/L		93	59 - 146	1	15
Dimethyl phthalate	ND		15.8	14.8		ug/L		94	59 - 141	0	15
Fluoranthene	ND		15.8	15.3		ug/L		97	55 - 147	3	15
Fluorene	ND		15.8	14.5		ug/L		92	55 - 143	1	15
Hexachlorobenzene	ND		15.8	13.5		ug/L		85	38 - 131	0	15
Hexachlorobutadiene	ND		15.8	13.0		ug/L		82	14 - 130	8	44
Hexachlorocyclopentadiene	ND		15.8	12.6		ug/L		80	13 - 130	2	49
Hexachloroethane	ND		15.8	12.7		ug/L		80	14 - 130	13	46
Indeno[1,2,3-cd]pyrene	ND		15.8	16.1		ug/L		102	69 - 146	4	15
Isophorone	ND		15.8	14.7		ug/L		93	48 - 133	4	17
N-Nitrosodi-n-propylamine	ND		15.8	14.5		ug/L		92	56 - 120	6	31
Naphthalene	ND		15.8	13.1		ug/L		83	35 - 130	4	29
Nitrobenzene	ND		15.8	14.1		ug/L		89	45 - 123	5	24
Pentachlorophenol	ND		31.6	40.9		ug/L		130	39 - 136	1	37
Phenanthrene	0.75	J	15.8	15.1		ug/L		91	57 - 147	3	15
Phenol	ND		15.8	9.07		ug/L		57	17 - 120	11	34
Pyrene	ND		15.8	14.7		ug/L		93	58 - 136	4	19

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-101666-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 307034**

**Client Sample ID: R1 MW-7**  
**Prep Type: Total/NA**  
**Prep Batch: 306932**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	89		46 - 120
Phenol-d5 (Surr)	56		16 - 120
p-Terphenyl-d14 (Surr)	95		67 - 150
2,4,6-Tribromophenol (Surr)	88		52 - 132
2-Fluorobiphenyl	87		48 - 120
2-Fluorophenol (Surr)	75		20 - 120

**Lab Sample ID: MB 480-307271/1-A**  
**Matrix: Water**  
**Analysis Batch: 307365**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 307271**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		06/17/16 15:18	06/18/16 16:32	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/17/16 15:18	06/18/16 16:32	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/17/16 15:18	06/18/16 16:32	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/17/16 15:18	06/18/16 16:32	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/17/16 15:18	06/18/16 16:32	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/17/16 15:18	06/18/16 16:32	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/17/16 15:18	06/18/16 16:32	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/17/16 15:18	06/18/16 16:32	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/17/16 15:18	06/18/16 16:32	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/17/16 15:18	06/18/16 16:32	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/17/16 15:18	06/18/16 16:32	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/17/16 15:18	06/18/16 16:32	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/17/16 15:18	06/18/16 16:32	1
2-Nitroaniline	ND		10	0.42	ug/L		06/17/16 15:18	06/18/16 16:32	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/17/16 15:18	06/18/16 16:32	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/17/16 15:18	06/18/16 16:32	1
3-Nitroaniline	ND		10	0.48	ug/L		06/17/16 15:18	06/18/16 16:32	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/17/16 15:18	06/18/16 16:32	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/17/16 15:18	06/18/16 16:32	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/17/16 15:18	06/18/16 16:32	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/17/16 15:18	06/18/16 16:32	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/17/16 15:18	06/18/16 16:32	1
4-Methylphenol	ND		10	0.36	ug/L		06/17/16 15:18	06/18/16 16:32	1
4-Nitroaniline	ND		10	0.25	ug/L		06/17/16 15:18	06/18/16 16:32	1
4-Nitrophenol	ND		10	1.5	ug/L		06/17/16 15:18	06/18/16 16:32	1
Acenaphthene	ND		5.0	0.41	ug/L		06/17/16 15:18	06/18/16 16:32	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/17/16 15:18	06/18/16 16:32	1
Acetophenone	ND		5.0	0.54	ug/L		06/17/16 15:18	06/18/16 16:32	1
Anthracene	ND		5.0	0.28	ug/L		06/17/16 15:18	06/18/16 16:32	1
Atrazine	ND		5.0	0.46	ug/L		06/17/16 15:18	06/18/16 16:32	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/17/16 15:18	06/18/16 16:32	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/17/16 15:18	06/18/16 16:32	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/17/16 15:18	06/18/16 16:32	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/17/16 15:18	06/18/16 16:32	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/17/16 15:18	06/18/16 16:32	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/17/16 15:18	06/18/16 16:32	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-307271/1-A**  
**Matrix: Water**  
**Analysis Batch: 307365**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 307271**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/17/16 15:18	06/18/16 16:32	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/17/16 15:18	06/18/16 16:32	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/17/16 15:18	06/18/16 16:32	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		06/17/16 15:18	06/18/16 16:32	1
Caprolactam	ND		5.0	2.2	ug/L		06/17/16 15:18	06/18/16 16:32	1
Carbazole	ND		5.0	0.30	ug/L		06/17/16 15:18	06/18/16 16:32	1
Chrysene	ND		5.0	0.33	ug/L		06/17/16 15:18	06/18/16 16:32	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/17/16 15:18	06/18/16 16:32	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		06/17/16 15:18	06/18/16 16:32	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/17/16 15:18	06/18/16 16:32	1
Dibenzofuran	ND		10	0.51	ug/L		06/17/16 15:18	06/18/16 16:32	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/17/16 15:18	06/18/16 16:32	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/17/16 15:18	06/18/16 16:32	1
Fluoranthene	ND		5.0	0.40	ug/L		06/17/16 15:18	06/18/16 16:32	1
Fluorene	ND		5.0	0.36	ug/L		06/17/16 15:18	06/18/16 16:32	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/17/16 15:18	06/18/16 16:32	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/17/16 15:18	06/18/16 16:32	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/17/16 15:18	06/18/16 16:32	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/17/16 15:18	06/18/16 16:32	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/17/16 15:18	06/18/16 16:32	1
Isophorone	ND		5.0	0.43	ug/L		06/17/16 15:18	06/18/16 16:32	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/17/16 15:18	06/18/16 16:32	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/17/16 15:18	06/18/16 16:32	1
Naphthalene	ND		5.0	0.76	ug/L		06/17/16 15:18	06/18/16 16:32	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/17/16 15:18	06/18/16 16:32	1
Pentachlorophenol	ND		10	2.2	ug/L		06/17/16 15:18	06/18/16 16:32	1
Phenanthrene	ND		5.0	0.44	ug/L		06/17/16 15:18	06/18/16 16:32	1
Phenol	ND		5.0	0.39	ug/L		06/17/16 15:18	06/18/16 16:32	1
Pyrene	ND		5.0	0.34	ug/L		06/17/16 15:18	06/18/16 16:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	100		46 - 120	06/17/16 15:18	06/18/16 16:32	1
Phenol-d5 (Surr)	53		16 - 120	06/17/16 15:18	06/18/16 16:32	1
p-Terphenyl-d14 (Surr)	121		67 - 150	06/17/16 15:18	06/18/16 16:32	1
2,4,6-Tribromophenol (Surr)	88		52 - 132	06/17/16 15:18	06/18/16 16:32	1
2-Fluorobiphenyl	96		48 - 120	06/17/16 15:18	06/18/16 16:32	1
2-Fluorophenol (Surr)	72		20 - 120	06/17/16 15:18	06/18/16 16:32	1

**Lab Sample ID: LCS 480-307271/2-A**  
**Matrix: Water**  
**Analysis Batch: 307365**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 307271**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	16.0	14.0		ug/L		88	30 - 140
bis (2-chloroisopropyl) ether	16.0	11.7		ug/L		73	28 - 136
2,4,5-Trichlorophenol	16.0	16.0		ug/L		100	65 - 126
2,4,6-Trichlorophenol	16.0	15.4		ug/L		96	64 - 120
2,4-Dichlorophenol	16.0	13.3		ug/L		83	64 - 120

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-307271/2-A**  
**Matrix: Water**  
**Analysis Batch: 307365**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 307271**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4-Dimethylphenol	16.0	12.5		ug/L		78	57 - 120
2,4-Dinitrophenol	32.0	24.0		ug/L		75	42 - 153
2,4-Dinitrotoluene	16.0	16.5		ug/L		103	65 - 154
2,6-Dinitrotoluene	16.0	15.1		ug/L		94	74 - 134
2-Chloronaphthalene	16.0	13.4		ug/L		84	41 - 124
2-Chlorophenol	16.0	11.5		ug/L		72	48 - 120
2-Methylphenol	16.0	11.6		ug/L		73	39 - 120
2-Methylnaphthalene	16.0	13.4		ug/L		84	34 - 122
2-Nitroaniline	16.0	15.0		ug/L		94	67 - 136
2-Nitrophenol	16.0	13.4		ug/L		84	59 - 120
3,3'-Dichlorobenzidine	32.0	34.3		ug/L		107	33 - 140
3-Nitroaniline	16.0	14.2		ug/L		89	28 - 130
4,6-Dinitro-2-methylphenol	32.0	30.9		ug/L		96	64 - 159
4-Bromophenyl phenyl ether	16.0	15.7		ug/L		98	71 - 126
4-Chloro-3-methylphenol	16.0	15.4		ug/L		96	64 - 120
4-Chloroaniline	16.0	11.1		ug/L		69	10 - 130
4-Chlorophenyl phenyl ether	16.0	15.5		ug/L		97	71 - 122
4-Methylphenol	16.0	11.6		ug/L		73	39 - 120
4-Nitroaniline	16.0	15.3		ug/L		95	47 - 130
4-Nitrophenol	32.0	27.0		ug/L		84	16 - 120
Acenaphthene	16.0	13.9		ug/L		87	60 - 120
Acenaphthylene	16.0	13.9		ug/L		87	63 - 120
Acetophenone	16.0	12.6		ug/L		79	45 - 120
Anthracene	16.0	15.9		ug/L		100	58 - 148
Atrazine	32.0	37.9		ug/L		118	56 - 179
Benzaldehyde	32.0	26.7		ug/L		84	30 - 140
Benzo[a]anthracene	16.0	16.4		ug/L		103	55 - 151
Benzo[a]pyrene	16.0	16.2		ug/L		102	60 - 145
Benzo[b]fluoranthene	16.0	16.9		ug/L		106	54 - 140
Benzo[g,h,i]perylene	16.0	16.5		ug/L		103	66 - 152
Benzo[k]fluoranthene	16.0	16.3		ug/L		102	51 - 153
Bis(2-chloroethoxy)methane	16.0	13.3		ug/L		83	50 - 128
Bis(2-chloroethyl)ether	16.0	11.6		ug/L		72	51 - 120
Bis(2-ethylhexyl) phthalate	16.0	16.3		ug/L		102	53 - 158
Butyl benzyl phthalate	16.0	16.7		ug/L		104	58 - 163
Caprolactam	32.0	12.2		ug/L		38	14 - 130
Carbazole	16.0	17.5		ug/L		109	59 - 148
Chrysene	16.0	16.1		ug/L		101	69 - 140
Dibenz(a,h)anthracene	16.0	16.9		ug/L		106	57 - 148
Di-n-butyl phthalate	16.0	17.5		ug/L		109	58 - 149
Di-n-octyl phthalate	16.0	15.1		ug/L		95	55 - 167
Dibenzofuran	16.0	15.0		ug/L		94	49 - 137
Diethyl phthalate	16.0	16.0		ug/L		100	59 - 146
Dimethyl phthalate	16.0	15.9		ug/L		99	59 - 141
Fluoranthene	16.0	17.4		ug/L		108	55 - 147
Fluorene	16.0	15.6		ug/L		98	55 - 143
Hexachlorobenzene	16.0	15.9		ug/L		99	14 - 130
Hexachlorobutadiene	16.0	10.3		ug/L		64	14 - 130

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-307271/2-A**  
**Matrix: Water**  
**Analysis Batch: 307365**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 307271**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclopentadiene	16.0	9.36		ug/L		59	13 - 130
Hexachloroethane	16.0	10.1		ug/L		63	14 - 130
Indeno[1,2,3-cd]pyrene	16.0	17.2		ug/L		108	69 - 146
Isophorone	16.0	14.0		ug/L		87	48 - 133
N-Nitrosodi-n-propylamine	16.0	12.8		ug/L		80	56 - 120
Naphthalene	16.0	12.1		ug/L		76	35 - 130
Nitrobenzene	16.0	13.1		ug/L		82	45 - 123
Pentachlorophenol	32.0	38.6		ug/L		121	39 - 136
Phenanthrene	16.0	16.4		ug/L		102	57 - 147
Phenol	16.0	8.22		ug/L		51	17 - 120
Pyrene	16.0	15.8		ug/L		99	58 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	82		46 - 120
Phenol-d5 (Surr)	49		16 - 120
p-Terphenyl-d14 (Surr)	106		67 - 150
2,4,6-Tribromophenol (Surr)	103		52 - 132
2-Fluorobiphenyl	87		48 - 120
2-Fluorophenol (Surr)	62		20 - 120

## Method: 8081B - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 480-306937/1-A**  
**Matrix: Water**  
**Analysis Batch: 307210**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 306937**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		06/16/16 08:00	06/17/16 11:19	1
4,4'-DDE	ND		0.050	0.012	ug/L		06/16/16 08:00	06/17/16 11:19	1
4,4'-DDT	ND		0.050	0.011	ug/L		06/16/16 08:00	06/17/16 11:19	1
Aldrin	ND		0.050	0.0081	ug/L		06/16/16 08:00	06/17/16 11:19	1
alpha-BHC	ND		0.050	0.0077	ug/L		06/16/16 08:00	06/17/16 11:19	1
alpha-Chlordane	ND		0.050	0.015	ug/L		06/16/16 08:00	06/17/16 11:19	1
beta-BHC	ND		0.050	0.025	ug/L		06/16/16 08:00	06/17/16 11:19	1
delta-BHC	ND		0.050	0.010	ug/L		06/16/16 08:00	06/17/16 11:19	1
Dieldrin	ND		0.050	0.0098	ug/L		06/16/16 08:00	06/17/16 11:19	1
Endosulfan I	ND		0.050	0.011	ug/L		06/16/16 08:00	06/17/16 11:19	1
Endosulfan II	ND		0.050	0.012	ug/L		06/16/16 08:00	06/17/16 11:19	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		06/16/16 08:00	06/17/16 11:19	1
Endrin	ND		0.050	0.014	ug/L		06/16/16 08:00	06/17/16 11:19	1
Endrin aldehyde	ND		0.050	0.016	ug/L		06/16/16 08:00	06/17/16 11:19	1
Endrin ketone	ND		0.050	0.012	ug/L		06/16/16 08:00	06/17/16 11:19	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		06/16/16 08:00	06/17/16 11:19	1
gamma-Chlordane	ND		0.050	0.011	ug/L		06/16/16 08:00	06/17/16 11:19	1
Heptachlor	ND		0.050	0.0085	ug/L		06/16/16 08:00	06/17/16 11:19	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		06/16/16 08:00	06/17/16 11:19	1
Methoxychlor	ND		0.050	0.014	ug/L		06/16/16 08:00	06/17/16 11:19	1
Toxaphene	ND		0.50	0.12	ug/L		06/16/16 08:00	06/17/16 11:19	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	38		20 - 120	06/16/16 08:00	06/17/16 11:19	1
DCB Decachlorobiphenyl	44		20 - 120	06/16/16 08:00	06/17/16 11:19	1
Tetrachloro-m-xylene	79		36 - 120	06/16/16 08:00	06/17/16 11:19	1
Tetrachloro-m-xylene	69		36 - 120	06/16/16 08:00	06/17/16 11:19	1

**Lab Sample ID: LCS 480-306937/2-A**  
**Matrix: Water**  
**Analysis Batch: 307210**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306937**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	0.400	0.311		ug/L		78	51 - 138
4,4'-DDE	0.400	0.277		ug/L		69	45 - 133
4,4'-DDT	0.400	0.335		ug/L		84	50 - 136
Aldrin	0.400	0.227		ug/L		57	40 - 125
alpha-BHC	0.400	0.253		ug/L		63	52 - 125
alpha-Chlordane	0.400	0.270		ug/L		67	52 - 133
beta-BHC	0.400	0.271		ug/L		68	51 - 135
delta-BHC	0.400	0.270		ug/L		68	51 - 132
Dieldrin	0.400	0.309		ug/L		77	49 - 136
Endosulfan I	0.400	0.277		ug/L		69	51 - 134
Endosulfan II	0.400	0.317		ug/L		79	52 - 138
Endosulfan sulfate	0.400	0.340		ug/L		85	47 - 136
Endrin	0.400	0.323		ug/L		81	52 - 143
Endrin aldehyde	0.400	0.295		ug/L		74	46 - 134
Endrin ketone	0.400	0.343		ug/L		86	51 - 138
gamma-BHC (Lindane)	0.400	0.280		ug/L		70	56 - 127
gamma-Chlordane	0.400	0.242		ug/L		61	52 - 128
Heptachlor	0.400	0.293		ug/L		73	51 - 125
Heptachlor epoxide	0.400	0.255		ug/L		64	50 - 140
Methoxychlor	0.400	0.456		ug/L		114	50 - 151

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	28		20 - 120
DCB Decachlorobiphenyl	37		20 - 120
Tetrachloro-m-xylene	74		36 - 120
Tetrachloro-m-xylene	65		36 - 120

**Lab Sample ID: 480-101666-7 MS**  
**Matrix: Water**  
**Analysis Batch: 307210**

**Client Sample ID: R1 MW-7**  
**Prep Type: Total/NA**  
**Prep Batch: 306937**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	ND		0.384	0.317		ug/L		82	43 - 146
4,4'-DDE	ND		0.384	0.232		ug/L		60	27 - 144
4,4'-DDT	ND		0.384	0.363		ug/L		94	37 - 140
Aldrin	ND		0.384	0.225		ug/L		58	39 - 125
alpha-BHC	ND		0.384	0.230		ug/L		60	47 - 130
alpha-Chlordane	ND		0.384	0.252		ug/L		65	36 - 142
beta-BHC	ND		0.384	0.253		ug/L		66	54 - 139
delta-BHC	ND		0.384	0.291		ug/L		76	43 - 139
Dieldrin	ND		0.384	0.325		ug/L		85	46 - 144
Endosulfan I	ND		0.384	0.280		ug/L		73	40 - 147
Endosulfan II	ND		0.384	0.345		ug/L		90	51 - 140

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: 480-101666-7 MS**

**Matrix: Water**

**Analysis Batch: 307210**

**Client Sample ID: R1 MW-7**

**Prep Type: Total/NA**

**Prep Batch: 306937**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits	
	Result	Qualifier		Result	Qualifier						
Endosulfan sulfate	ND		0.384	0.372		ug/L		97		36 - 159	
Endrin	ND		0.384	0.349		ug/L		91		48 - 156	
Endrin aldehyde	ND		0.384	0.373		ug/L		97		29 - 142	
Endrin ketone	ND		0.384	0.425		ug/L		111		57 - 138	
gamma-BHC (Lindane)	ND		0.384	0.276		ug/L		72		48 - 133	
gamma-Chlordane	ND		0.384	0.263		ug/L		68		46 - 132	
Heptachlor	ND		0.384	0.308		ug/L		80		36 - 142	
Heptachlor epoxide	ND		0.384	0.387		ug/L		101		53 - 139	
Methoxychlor	ND		0.384	0.545		ug/L		142		40 - 175	
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
DCB Decachlorobiphenyl	29		20 - 120								
DCB Decachlorobiphenyl	37		20 - 120								
Tetrachloro-m-xylene	88		36 - 120								
Tetrachloro-m-xylene	61		36 - 120								

**Lab Sample ID: 480-101666-7 MSD**

**Matrix: Water**

**Analysis Batch: 307210**

**Client Sample ID: R1 MW-7**

**Prep Type: Total/NA**

**Prep Batch: 306937**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD
	Result	Qualifier		Result	Qualifier						Limit	
4,4'-DDD	ND		0.381	0.379		ug/L		99		43 - 146	18	23
4,4'-DDE	ND		0.381	0.265		ug/L		70		27 - 144	13	22
4,4'-DDT	ND		0.381	0.417		ug/L		110		37 - 140	14	24
Aldrin	ND		0.381	0.246		ug/L		65		39 - 125	9	25
alpha-BHC	ND		0.381	0.277		ug/L		73		47 - 130	18	24
alpha-Chlordane	ND		0.381	0.289		ug/L		76		36 - 142	14	23
beta-BHC	ND		0.381	0.307		ug/L		81		54 - 139	19	24
delta-BHC	ND		0.381	0.353		ug/L		93		43 - 139	19	24
Dieldrin	ND		0.381	0.390		ug/L		102		46 - 144	18	24
Endosulfan I	ND		0.381	0.329		ug/L		86		40 - 147	16	30
Endosulfan II	ND		0.381	0.407		ug/L		107		51 - 140	16	40
Endosulfan sulfate	ND		0.381	0.432		ug/L		114		36 - 159	15	24
Endrin	ND		0.381	0.419		ug/L		110		48 - 156	18	24
Endrin aldehyde	ND		0.381	0.450		ug/L		118		29 - 142	19	28
Endrin ketone	ND		0.381	0.471		ug/L		124		57 - 138	10	26
gamma-BHC (Lindane)	ND		0.381	0.347		ug/L		91		48 - 133	23	24
gamma-Chlordane	ND		0.381	0.302		ug/L		79		46 - 132	14	24
Heptachlor	ND		0.381	0.375		ug/L		98		36 - 142	19	25
Heptachlor epoxide	ND		0.381	0.466		ug/L		122		53 - 139	18	23
Methoxychlor	ND		0.381	0.614		ug/L		161		40 - 175	12	26
Surrogate	MSD	MSD	Limits									
	%Recovery	Qualifier										
DCB Decachlorobiphenyl	38		20 - 120									
DCB Decachlorobiphenyl	53		20 - 120									
Tetrachloro-m-xylene	105		36 - 120									
Tetrachloro-m-xylene	75		36 - 120									

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 480-306934/1-A**

**Matrix: Water**

**Analysis Batch: 307100**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 306934**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		06/16/16 07:53	06/16/16 23:08	1
PCB-1221	ND		0.50	0.18	ug/L		06/16/16 07:53	06/16/16 23:08	1
PCB-1232	ND		0.50	0.18	ug/L		06/16/16 07:53	06/16/16 23:08	1
PCB-1242	ND		0.50	0.18	ug/L		06/16/16 07:53	06/16/16 23:08	1
PCB-1248	ND		0.50	0.18	ug/L		06/16/16 07:53	06/16/16 23:08	1
PCB-1254	ND		0.50	0.25	ug/L		06/16/16 07:53	06/16/16 23:08	1
PCB-1260	ND		0.50	0.25	ug/L		06/16/16 07:53	06/16/16 23:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		24 - 137	06/16/16 07:53	06/16/16 23:08	1
Tetrachloro-m-xylene	93		24 - 137	06/16/16 07:53	06/16/16 23:08	1
DCB Decachlorobiphenyl	59		19 - 125	06/16/16 07:53	06/16/16 23:08	1
DCB Decachlorobiphenyl	61		19 - 125	06/16/16 07:53	06/16/16 23:08	1

**Lab Sample ID: LCS 480-306934/2-A**

**Matrix: Water**

**Analysis Batch: 307100**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 306934**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	4.00	4.16		ug/L		104	62 - 130
PCB-1260	4.00	3.78		ug/L		95	56 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	97		24 - 137
Tetrachloro-m-xylene	91		24 - 137
DCB Decachlorobiphenyl	59		19 - 125
DCB Decachlorobiphenyl	60		19 - 125

**Lab Sample ID: 480-101666-7 MS**

**Matrix: Water**

**Analysis Batch: 307100**

**Client Sample ID: R1 MW-7**

**Prep Type: Total/NA**

**Prep Batch: 306934**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
PCB-1016	ND		3.78	3.44		ug/L		91	28 - 165
PCB-1260	ND		3.78	2.81		ug/L		74	20 - 141

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	77		24 - 137
Tetrachloro-m-xylene	85		24 - 137
DCB Decachlorobiphenyl	52		19 - 125
DCB Decachlorobiphenyl	51		19 - 125



# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 480-101666-7 MSD**

**Matrix: Water**

**Analysis Batch: 307100**

**Client Sample ID: R1 MW-7**

**Prep Type: Total/NA**

**Prep Batch: 306934**

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
PCB-1016	ND		3.85	3.96		ug/L		103	28 - 165	14	50
PCB-1260	ND		3.85	2.82		ug/L		73	20 - 141	1	50
<b>MSD MSD</b>											
Surrogate	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	76		24 - 137								
Tetrachloro-m-xylene	80		24 - 137								
DCB Decachlorobiphenyl	51		19 - 125								
DCB Decachlorobiphenyl	52		19 - 125								

## Method: 8151A - Herbicides (GC)

**Lab Sample ID: MB 480-306868/1-A**

**Matrix: Water**

**Analysis Batch: 307040**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 306868**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
2,4,5-T	ND		0.50	0.068	ug/L		06/15/16 15:50	06/16/16 19:56	1	
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		06/15/16 15:50	06/16/16 19:56	1	
2,4-D	ND		0.50	0.17	ug/L		06/15/16 15:50	06/16/16 19:56	1	
<b>MB MB</b>										
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
2,4-Dichlorophenylacetic acid	92		35 - 143	06/15/16 15:50	06/16/16 19:56	1				
2,4-Dichlorophenylacetic acid	97		35 - 143	06/15/16 15:50	06/16/16 19:56	1				

**Lab Sample ID: LCS 480-306868/2-A**

**Matrix: Water**

**Analysis Batch: 307040**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 306868**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
2,4,5-T	2.00	1.58		ug/L		79	29 - 165
Silvex (2,4,5-TP)	2.00	1.67		ug/L		83	49 - 167
2,4-D	2.00	1.74		ug/L		87	36 - 179
<b>LCS LCS</b>							
Surrogate	%Recovery	Qualifier	Limits				
2,4-Dichlorophenylacetic acid	77		35 - 143				
2,4-Dichlorophenylacetic acid	80		35 - 143				

**Lab Sample ID: 480-101666-7 MS**

**Matrix: Water**

**Analysis Batch: 307040**

**Client Sample ID: R1 MW-7**

**Prep Type: Total/NA**

**Prep Batch: 306868**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
2,4,5-T	ND		6.90	5.21		ug/L		75	22 - 138
Silvex (2,4,5-TP)	ND		6.90	5.49		ug/L		80	19 - 156
2,4-D	ND		6.90	5.70		ug/L		83	31 - 161

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 8151A - Herbicides (GC) (Continued)

**Lab Sample ID: 480-101666-7 MS**  
**Matrix: Water**  
**Analysis Batch: 307040**

**Client Sample ID: R1 MW-7**  
**Prep Type: Total/NA**  
**Prep Batch: 306868**

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	83		35 - 143
2,4-Dichlorophenylacetic acid	85		35 - 143

**Lab Sample ID: 480-101666-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 307040**

**Client Sample ID: R1 MW-7**  
**Prep Type: Total/NA**  
**Prep Batch: 306868**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	
				Result	Qualifier				Limits	RPD	Limit	
2,4,5-T	ND		6.25	4.75		ug/L		76	22 - 138	9	50	
Silvex (2,4,5-TP)	ND		6.25	5.03		ug/L		80	19 - 156	9	50	
2,4-D	ND		6.25	5.19		ug/L		83	31 - 161	9	50	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	87		35 - 143
2,4-Dichlorophenylacetic acid	107		35 - 143

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 480-306931/1-A**  
**Matrix: Water**  
**Analysis Batch: 307150**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 306931**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		0.20		mg/L		06/16/16 07:34	06/16/16 18:04	1
Antimony	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:04	1
Arsenic	ND		0.015		mg/L		06/16/16 07:34	06/16/16 18:04	1
Barium	0.00206		0.0020		mg/L		06/16/16 07:34	06/16/16 18:04	1
Beryllium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 18:04	1
Cadmium	ND		0.0020		mg/L		06/16/16 07:34	06/16/16 18:04	1
Calcium	ND		0.50		mg/L		06/16/16 07:34	06/16/16 18:04	1
Chromium	ND		0.0040		mg/L		06/16/16 07:34	06/16/16 18:04	1
Cobalt	ND		0.0040		mg/L		06/16/16 07:34	06/16/16 18:04	1
Copper	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:04	1
Iron	ND		0.050		mg/L		06/16/16 07:34	06/16/16 18:04	1
Lead	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:04	1
Magnesium	ND		0.20		mg/L		06/16/16 07:34	06/16/16 18:04	1
Manganese	ND		0.0030		mg/L		06/16/16 07:34	06/16/16 18:04	1
Nickel	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:04	1
Potassium	ND		0.50		mg/L		06/16/16 07:34	06/16/16 18:04	1
Selenium	ND		0.025		mg/L		06/16/16 07:34	06/16/16 18:04	1
Silver	ND		0.0060		mg/L		06/16/16 07:34	06/16/16 18:04	1
Sodium	ND		1.0		mg/L		06/16/16 07:34	06/16/16 18:04	1
Thallium	ND		0.020		mg/L		06/16/16 07:34	06/16/16 18:04	1
Vanadium	ND		0.0050		mg/L		06/16/16 07:34	06/16/16 18:04	1
Zinc	ND		0.010		mg/L		06/16/16 07:34	06/16/16 18:04	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: LCS 480-306931/2-A**  
**Matrix: Water**  
**Analysis Batch: 307150**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306931**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aluminum	10.0	9.56		mg/L		96	80 - 120
Antimony	0.200	0.197		mg/L		99	80 - 120
Arsenic	0.200	0.198		mg/L		99	80 - 120
Barium	0.200	0.199		mg/L		99	80 - 120
Beryllium	0.200	0.194		mg/L		97	80 - 120
Cadmium	0.200	0.202		mg/L		101	80 - 120
Calcium	10.0	9.42		mg/L		94	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.200	0.187		mg/L		94	80 - 120
Copper	0.200	0.189		mg/L		94	80 - 120
Iron	10.0	10.09		mg/L		101	80 - 120
Lead	0.200	0.195		mg/L		97	80 - 120
Magnesium	10.0	9.87		mg/L		99	80 - 120
Manganese	0.200	0.199		mg/L		99	80 - 120
Nickel	0.200	0.187		mg/L		94	80 - 120
Potassium	10.0	9.94		mg/L		99	80 - 120
Selenium	0.200	0.198		mg/L		99	80 - 120
Silver	0.0500	0.0492		mg/L		98	80 - 120
Sodium	10.0	9.93		mg/L		99	80 - 120
Thallium	0.200	0.196		mg/L		98	80 - 120
Vanadium	0.200	0.196		mg/L		98	80 - 120
Zinc	0.200	0.194		mg/L		97	80 - 120

**Lab Sample ID: 480-101666-7 MS**  
**Matrix: Water**  
**Analysis Batch: 307150**

**Client Sample ID: R1 MW-7**  
**Prep Type: Total/NA**  
**Prep Batch: 306931**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aluminum	1.8		10.0	10.35		mg/L		85	75 - 125
Antimony	ND		0.200	0.202		mg/L		101	75 - 125
Arsenic	ND		0.200	0.207		mg/L		104	75 - 125
Barium	0.18	F2 F1 B	0.200	0.422		mg/L		121	75 - 125
Beryllium	ND		0.200	0.196		mg/L		98	75 - 125
Cadmium	ND		0.200	0.211		mg/L		105	75 - 125
Calcium	224		10.0	231.7	4	mg/L		74	75 - 125
Chromium	ND		0.200	0.198		mg/L		98	75 - 125
Cobalt	ND		0.200	0.195		mg/L		97	75 - 125
Copper	ND		0.200	0.197		mg/L		96	75 - 125
Iron	2.1		10.0	10.84		mg/L		88	75 - 125
Lead	ND		0.200	0.209		mg/L		101	75 - 125
Magnesium	103		10.0	113.2	4	mg/L		99	75 - 125
Manganese	0.14		0.200	0.287		mg/L		76	75 - 125
Nickel	ND		0.200	0.201		mg/L		96	75 - 125
Potassium	8.7		10.0	18.66		mg/L		99	75 - 125
Selenium	ND		0.200	0.205		mg/L		103	75 - 125
Silver	ND		0.0500	0.0500		mg/L		100	75 - 125
Sodium	78.6		10.0	89.12	4	mg/L		105	75 - 125
Thallium	ND		0.200	0.199		mg/L		100	75 - 125

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: 480-101666-7 MS**  
**Matrix: Water**  
**Analysis Batch: 307150**

**Client Sample ID: R1 MW-7**  
**Prep Type: Total/NA**  
**Prep Batch: 306931**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Vanadium	ND		0.200	0.198		mg/L		97	75 - 125
Zinc	0.10	F2 F1	0.200	0.329		mg/L		113	75 - 125

**Lab Sample ID: 480-101666-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 307150**

**Client Sample ID: R1 MW-7**  
**Prep Type: Total/NA**  
**Prep Batch: 306931**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aluminum	1.8		10.0	10.34		mg/L		85	75 - 125	0	20
Antimony	ND		0.200	0.202		mg/L		101	75 - 125	0	20
Arsenic	ND		0.200	0.208		mg/L		104	75 - 125	0	20
Barium	0.18	F2 F1 B	0.200	0.528	F1 F2	mg/L		174	75 - 125	22	20
Beryllium	ND		0.200	0.195		mg/L		97	75 - 125	0	20
Cadmium	ND		0.200	0.210		mg/L		105	75 - 125	0	20
Calcium	224		10.0	231.2	4	mg/L		69	75 - 125	0	20
Chromium	ND		0.200	0.203		mg/L		100	75 - 125	2	20
Cobalt	ND		0.200	0.195		mg/L		96	75 - 125	0	20
Copper	ND		0.200	0.203		mg/L		99	75 - 125	3	20
Iron	2.1		10.0	10.84		mg/L		88	75 - 125	0	20
Lead	ND		0.200	0.214		mg/L		104	75 - 125	2	20
Magnesium	103		10.0	115.6	4	mg/L		124	75 - 125	2	20
Manganese	0.14		0.200	0.298		mg/L		81	75 - 125	4	20
Nickel	ND		0.200	0.201		mg/L		96	75 - 125	0	20
Potassium	8.7		10.0	18.75		mg/L		100	75 - 125	0	20
Selenium	ND		0.200	0.202		mg/L		101	75 - 125	1	20
Silver	ND		0.0500	0.0520		mg/L		104	75 - 125	4	20
Sodium	78.6		10.0	89.38	4	mg/L		108	75 - 125	0	20
Thallium	ND		0.200	0.199		mg/L		99	75 - 125	0	20
Vanadium	ND		0.200	0.203		mg/L		100	75 - 125	3	20
Zinc	0.10	F2 F1	0.200	0.430	F1 F2	mg/L		164	75 - 125	27	20

**Lab Sample ID: MB 480-306970/1-B**  
**Matrix: Water**  
**Analysis Batch: 307435**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 307207**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		06/17/16 11:15	06/17/16 22:37	1
Antimony	ND		0.020		mg/L		06/17/16 11:15	06/17/16 22:37	1
Arsenic	ND		0.015		mg/L		06/17/16 11:15	06/17/16 22:37	1
Barium	ND		0.0020		mg/L		06/17/16 11:15	06/17/16 22:37	1
Beryllium	ND		0.0020		mg/L		06/17/16 11:15	06/17/16 22:37	1
Cadmium	ND		0.0020		mg/L		06/17/16 11:15	06/17/16 22:37	1
Calcium	ND		0.50		mg/L		06/17/16 11:15	06/17/16 22:37	1
Chromium	ND		0.0040		mg/L		06/17/16 11:15	06/17/16 22:37	1
Cobalt	ND		0.0040		mg/L		06/17/16 11:15	06/17/16 22:37	1
Copper	ND		0.010		mg/L		06/17/16 11:15	06/17/16 22:37	1
Iron	ND		0.050		mg/L		06/17/16 11:15	06/17/16 22:37	1
Lead	ND		0.010		mg/L		06/17/16 11:15	06/17/16 22:37	1
Magnesium	ND		0.20		mg/L		06/17/16 11:15	06/17/16 22:37	1

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: MB 480-306970/1-B**  
**Matrix: Water**  
**Analysis Batch: 307435**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 307207**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.0030		mg/L		06/17/16 11:15	06/17/16 22:37	1
Nickel	ND		0.010		mg/L		06/17/16 11:15	06/17/16 22:37	1
Potassium	ND		0.50		mg/L		06/17/16 11:15	06/17/16 22:37	1
Selenium	ND		0.025		mg/L		06/17/16 11:15	06/17/16 22:37	1
Silver	ND		0.0060		mg/L		06/17/16 11:15	06/17/16 22:37	1
Sodium	ND		1.0		mg/L		06/17/16 11:15	06/17/16 22:37	1
Thallium	ND		0.020		mg/L		06/17/16 11:15	06/17/16 22:37	1
Vanadium	ND		0.0050		mg/L		06/17/16 11:15	06/17/16 22:37	1
Zinc	ND		0.010		mg/L		06/17/16 11:15	06/17/16 22:37	1

**Lab Sample ID: LCS 480-306970/2-B**  
**Matrix: Water**  
**Analysis Batch: 307435**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Dissolved**  
**Prep Batch: 307207**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.48		mg/L		95	80 - 120
Antimony	0.200	0.192		mg/L		96	80 - 120
Arsenic	0.200	0.185		mg/L		93	80 - 120
Barium	0.200	0.193		mg/L		97	80 - 120
Beryllium	0.200	0.188		mg/L		94	80 - 120
Cadmium	0.200	0.197		mg/L		98	80 - 120
Calcium	10.0	9.22		mg/L		92	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Cobalt	0.200	0.183		mg/L		92	80 - 120
Copper	0.200	0.184		mg/L		92	80 - 120
Iron	10.0	9.66		mg/L		97	80 - 120
Lead	0.200	0.189		mg/L		94	80 - 120
Magnesium	10.0	9.70		mg/L		97	80 - 120
Manganese	0.200	0.197		mg/L		98	80 - 120
Nickel	0.200	0.182		mg/L		91	80 - 120
Potassium	10.0	9.61		mg/L		96	80 - 120
Selenium	0.200	0.183		mg/L		91	80 - 120
Silver	0.0500	0.0477		mg/L		95	80 - 120
Sodium	10.0	9.48		mg/L		95	80 - 120
Thallium	0.200	0.191		mg/L		95	80 - 120
Vanadium	0.200	0.191		mg/L		95	80 - 120
Zinc	0.200	0.192		mg/L		96	80 - 120

**Lab Sample ID: 480-101666-7 MS**  
**Matrix: Water**  
**Analysis Batch: 307435**

**Client Sample ID: R1 MW-7**  
**Prep Type: Dissolved**  
**Prep Batch: 307207**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		10.0	9.35		mg/L		93	75 - 125
Antimony	ND		0.200	0.198		mg/L		99	75 - 125
Arsenic	ND		0.200	0.197		mg/L		99	75 - 125
Barium	0.015		0.200	0.200		mg/L		92	75 - 125
Beryllium	ND		0.200	0.188		mg/L		94	75 - 125
Cadmium	ND		0.200	0.203		mg/L		102	75 - 125

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: 480-101666-7 MS**

**Matrix: Water**

**Analysis Batch: 307435**

**Client Sample ID: R1 MW-7**

**Prep Type: Dissolved**

**Prep Batch: 307207**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Calcium	215		10.0	218.4	4	mg/L		36		75 - 125
Chromium	ND		0.200	0.194		mg/L		97		75 - 125
Cobalt	ND		0.200	0.189		mg/L		94		75 - 125
Copper	ND		0.200	0.188		mg/L		94		75 - 125
Iron	ND		10.0	9.49		mg/L		95		75 - 125
Lead	ND		0.200	0.193		mg/L		96		75 - 125
Magnesium	99.9		10.0	105.6	4	mg/L		56		75 - 125
Manganese	0.087		0.200	0.274		mg/L		94		75 - 125
Nickel	ND		0.200	0.193		mg/L		93		75 - 125
Potassium	8.3		10.0	17.22		mg/L		89		75 - 125
Selenium	ND		0.200	0.192		mg/L		96		75 - 125
Silver	ND		0.0500	0.0480		mg/L		96		75 - 125
Sodium	77.9		10.0	84.99	4	mg/L		71		75 - 125
Thallium	ND		0.200	0.187		mg/L		94		75 - 125
Vanadium	ND		0.200	0.190		mg/L		95		75 - 125
Zinc	0.094		0.200	0.308		mg/L		107		75 - 125

**Lab Sample ID: 480-101666-7 MSD**

**Matrix: Water**

**Analysis Batch: 307435**

**Client Sample ID: R1 MW-7**

**Prep Type: Dissolved**

**Prep Batch: 307207**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						Limit	
Aluminum	ND		10.0	9.95		mg/L		99		75 - 125	6	20
Antimony	ND		0.200	0.209		mg/L		105		75 - 125	5	20
Arsenic	ND		0.200	0.207		mg/L		103		75 - 125	5	20
Barium	0.015		0.200	0.212		mg/L		98		75 - 125	6	20
Beryllium	ND		0.200	0.199		mg/L		99		75 - 125	6	20
Cadmium	ND		0.200	0.215		mg/L		107		75 - 125	6	20
Calcium	215		10.0	230.4	4	mg/L		156		75 - 125	5	20
Chromium	ND		0.200	0.206		mg/L		103		75 - 125	6	20
Cobalt	ND		0.200	0.200		mg/L		99		75 - 125	6	20
Copper	ND		0.200	0.201		mg/L		100		75 - 125	6	20
Iron	ND		10.0	9.97		mg/L		99		75 - 125	5	20
Lead	ND		0.200	0.202		mg/L		101		75 - 125	5	20
Magnesium	99.9		10.0	112.0	4	mg/L		121		75 - 125	6	20
Manganese	0.087		0.200	0.291		mg/L		102		75 - 125	6	20
Nickel	ND		0.200	0.204		mg/L		98		75 - 125	6	20
Potassium	8.3		10.0	18.06		mg/L		97		75 - 125	5	20
Selenium	ND		0.200	0.203		mg/L		101		75 - 125	5	20
Silver	ND		0.0500	0.0516		mg/L		103		75 - 125	7	20
Sodium	77.9		10.0	89.62	4	mg/L		117		75 - 125	5	20
Thallium	ND		0.200	0.199		mg/L		100		75 - 125	6	20
Vanadium	ND		0.200	0.200		mg/L		100		75 - 125	5	20
Zinc	0.094		0.200	0.331		mg/L		119		75 - 125	7	20

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 480-306851/1-A**  
**Matrix: Water**  
**Analysis Batch: 307021**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 306851**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/16/16 06:55	06/16/16 10:59	1

**Lab Sample ID: LCS 480-306851/2-A**  
**Matrix: Water**  
**Analysis Batch: 307021**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306851**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00667	0.00650		mg/L		97	80 - 120

**Lab Sample ID: 480-101666-7 MS**  
**Matrix: Water**  
**Analysis Batch: 307021**

**Client Sample ID: R1 MW-7**  
**Prep Type: Total/NA**  
**Prep Batch: 306851**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	ND		0.00667	0.00700		mg/L		105	80 - 120

**Lab Sample ID: 480-101666-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 307021**

**Client Sample ID: R1 MW-7**  
**Prep Type: Total/NA**  
**Prep Batch: 306851**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	ND		0.00667	0.00688		mg/L		103	80 - 120	2	20

**Lab Sample ID: MB 480-306970/1-D**  
**Matrix: Water**  
**Analysis Batch: 307267**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 307224**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/17/16 11:30	06/17/16 14:11	1

**Lab Sample ID: LCS 480-306970/2-D**  
**Matrix: Water**  
**Analysis Batch: 307267**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Dissolved**  
**Prep Batch: 307224**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00667	0.00693		mg/L		104	80 - 120

**Lab Sample ID: LCSD 480-306970/3-B**  
**Matrix: Water**  
**Analysis Batch: 307267**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Dissolved**  
**Prep Batch: 307224**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.00667	0.00693		mg/L		104	80 - 120	0	20

**Lab Sample ID: 480-101666-7 MS**  
**Matrix: Water**  
**Analysis Batch: 307267**

**Client Sample ID: R1 MW-7**  
**Prep Type: Dissolved**  
**Prep Batch: 307224**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	ND		0.00667	0.00703		mg/L		105	80 - 120

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Lab Sample ID: 480-101666-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 307267**

**Client Sample ID: R1 MW-7**  
**Prep Type: Dissolved**  
**Prep Batch: 307224**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00697		mg/L		104	80 - 120	1	20

## Method: 9012B - Cyanide, Total and/or Amenable

**Lab Sample ID: MB 480-306976/1-A**  
**Matrix: Water**  
**Analysis Batch: 307222**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 306976**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		06/16/16 10:12	06/17/16 09:03	1

**Lab Sample ID: LCS 480-306976/2-A**  
**Matrix: Water**  
**Analysis Batch: 307222**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306976**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.411		mg/L		103	90 - 110

**Lab Sample ID: LCS 480-306976/3-A**  
**Matrix: Water**  
**Analysis Batch: 307222**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306976**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.260		mg/L		104	90 - 110

**Lab Sample ID: 480-101666-1 MS**  
**Matrix: Water**  
**Analysis Batch: 307222**

**Client Sample ID: R1 MW-3**  
**Prep Type: Total/NA**  
**Prep Batch: 306976**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		0.100	0.0932		mg/L		93	90 - 110

**Lab Sample ID: 480-101666-7 MS**  
**Matrix: Water**  
**Analysis Batch: 307222**

**Client Sample ID: R1 MW-7**  
**Prep Type: Total/NA**  
**Prep Batch: 306976**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		0.100	0.0929		mg/L		93	90 - 110

**Lab Sample ID: 480-101666-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 307222**

**Client Sample ID: R1 MW-7**  
**Prep Type: Total/NA**  
**Prep Batch: 306976**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		0.100	0.0933		mg/L		93	90 - 110	0	15

TestAmerica Buffalo



# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## GC/MS VOA

### Analysis Batch: 306892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Total/NA	Water	8260C	
480-101666-2	R1 MW-10	Total/NA	Water	8260C	
480-101666-3	R1 MW-8	Total/NA	Water	8260C	
480-101666-4	BLIND DUP	Total/NA	Water	8260C	
480-101666-5	R1 MW-6	Total/NA	Water	8260C	
480-101666-6	R1 MW-9	Total/NA	Water	8260C	
480-101666-7	R1 MW-7	Total/NA	Water	8260C	
480-101666-7 MS	R1 MW-7	Total/NA	Water	8260C	
480-101666-7 MSD	R1 MW-7	Total/NA	Water	8260C	
480-101666-8	R1 MW-2	Total/NA	Water	8260C	
480-101666-9	R1 MW-1	Total/NA	Water	8260C	
480-101666-10	R1 MW-4	Total/NA	Water	8260C	
480-101666-11	R1 MW-5	Total/NA	Water	8260C	
LCS 480-306892/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-306892/6	Method Blank	Total/NA	Water	8260C	

### Analysis Batch: 306967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-10 - DL	R1 MW-4	Total/NA	Water	8260C	
480-101666-13	TRIP BLANK	Total/NA	Water	8260C	
LCS 480-306967/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-306967/7	Method Blank	Total/NA	Water	8260C	

### Analysis Batch: 307089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-6 - DL	R1 MW-9	Total/NA	Water	8260C	
LCS 480-307089/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-307089/7	Method Blank	Total/NA	Water	8260C	

## GC/MS Semi VOA

### Prep Batch: 306932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Total/NA	Water	3510C	
480-101666-2	R1 MW-10	Total/NA	Water	3510C	
480-101666-3	R1 MW-8	Total/NA	Water	3510C	
480-101666-4	BLIND DUP	Total/NA	Water	3510C	
480-101666-5	R1 MW-6	Total/NA	Water	3510C	
480-101666-6	R1 MW-9	Total/NA	Water	3510C	
480-101666-7	R1 MW-7	Total/NA	Water	3510C	
480-101666-7 MS	R1 MW-7	Total/NA	Water	3510C	
480-101666-7 MSD	R1 MW-7	Total/NA	Water	3510C	
480-101666-9	R1 MW-1	Total/NA	Water	3510C	
480-101666-10	R1 MW-4	Total/NA	Water	3510C	
480-101666-11	R1 MW-5	Total/NA	Water	3510C	
LCS 480-306932/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-306932/1-A	Method Blank	Total/NA	Water	3510C	

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 307034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Total/NA	Water	8270D	306932
480-101666-7	R1 MW-7	Total/NA	Water	8270D	306932
480-101666-7 MS	R1 MW-7	Total/NA	Water	8270D	306932
480-101666-7 MSD	R1 MW-7	Total/NA	Water	8270D	306932
480-101666-9	R1 MW-1	Total/NA	Water	8270D	306932
480-101666-10	R1 MW-4	Total/NA	Water	8270D	306932
480-101666-11	R1 MW-5	Total/NA	Water	8270D	306932
LCS 480-306932/2-A	Lab Control Sample	Total/NA	Water	8270D	306932
MB 480-306932/1-A	Method Blank	Total/NA	Water	8270D	306932

### Analysis Batch: 307218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-2	R1 MW-10	Total/NA	Water	8270D	306932
480-101666-3	R1 MW-8	Total/NA	Water	8270D	306932
480-101666-4	BLIND DUP	Total/NA	Water	8270D	306932
480-101666-5	R1 MW-6	Total/NA	Water	8270D	306932
480-101666-6	R1 MW-9	Total/NA	Water	8270D	306932

### Prep Batch: 307271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-8	R1 MW-2	Total/NA	Water	3510C	
LCS 480-307271/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-307271/1-A	Method Blank	Total/NA	Water	3510C	

### Analysis Batch: 307365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-8	R1 MW-2	Total/NA	Water	8270D	307271
LCS 480-307271/2-A	Lab Control Sample	Total/NA	Water	8270D	307271
MB 480-307271/1-A	Method Blank	Total/NA	Water	8270D	307271

## GC Semi VOA

### Prep Batch: 306868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Total/NA	Water	8151A	
480-101666-2	R1 MW-10	Total/NA	Water	8151A	
480-101666-3	R1 MW-8	Total/NA	Water	8151A	
480-101666-4	BLIND DUP	Total/NA	Water	8151A	
480-101666-5	R1 MW-6	Total/NA	Water	8151A	
480-101666-6	R1 MW-9	Total/NA	Water	8151A	
480-101666-7	R1 MW-7	Total/NA	Water	8151A	
480-101666-7 MS	R1 MW-7	Total/NA	Water	8151A	
480-101666-7 MSD	R1 MW-7	Total/NA	Water	8151A	
480-101666-8	R1 MW-2	Total/NA	Water	8151A	
480-101666-9	R1 MW-1	Total/NA	Water	8151A	
480-101666-10	R1 MW-4	Total/NA	Water	8151A	
480-101666-11	R1 MW-5	Total/NA	Water	8151A	
LCS 480-306868/2-A	Lab Control Sample	Total/NA	Water	8151A	
MB 480-306868/1-A	Method Blank	Total/NA	Water	8151A	

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## GC Semi VOA (Continued)

### Prep Batch: 306934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Total/NA	Water	3510C	
480-101666-2	R1 MW-10	Total/NA	Water	3510C	
480-101666-3	R1 MW-8	Total/NA	Water	3510C	
480-101666-4	BLIND DUP	Total/NA	Water	3510C	
480-101666-5	R1 MW-6	Total/NA	Water	3510C	
480-101666-6	R1 MW-9	Total/NA	Water	3510C	
480-101666-7	R1 MW-7	Total/NA	Water	3510C	
480-101666-7 MS	R1 MW-7	Total/NA	Water	3510C	
480-101666-7 MSD	R1 MW-7	Total/NA	Water	3510C	
480-101666-8	R1 MW-2	Total/NA	Water	3510C	
480-101666-9	R1 MW-1	Total/NA	Water	3510C	
480-101666-10	R1 MW-4	Total/NA	Water	3510C	
480-101666-11	R1 MW-5	Total/NA	Water	3510C	
LCS 480-306934/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-306934/1-A	Method Blank	Total/NA	Water	3510C	

### Prep Batch: 306937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Total/NA	Water	3510C	
480-101666-2	R1 MW-10	Total/NA	Water	3510C	
480-101666-3	R1 MW-8	Total/NA	Water	3510C	
480-101666-4	BLIND DUP	Total/NA	Water	3510C	
480-101666-5	R1 MW-6	Total/NA	Water	3510C	
480-101666-6	R1 MW-9	Total/NA	Water	3510C	
480-101666-7	R1 MW-7	Total/NA	Water	3510C	
480-101666-7 MS	R1 MW-7	Total/NA	Water	3510C	
480-101666-7 MSD	R1 MW-7	Total/NA	Water	3510C	
480-101666-8	R1 MW-2	Total/NA	Water	3510C	
480-101666-9	R1 MW-1	Total/NA	Water	3510C	
480-101666-10	R1 MW-4	Total/NA	Water	3510C	
480-101666-11	R1 MW-5	Total/NA	Water	3510C	
LCS 480-306937/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-306937/1-A	Method Blank	Total/NA	Water	3510C	

### Analysis Batch: 307040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Total/NA	Water	8151A	306868
480-101666-2	R1 MW-10	Total/NA	Water	8151A	306868
480-101666-3	R1 MW-8	Total/NA	Water	8151A	306868
480-101666-4	BLIND DUP	Total/NA	Water	8151A	306868
480-101666-5	R1 MW-6	Total/NA	Water	8151A	306868
480-101666-6	R1 MW-9	Total/NA	Water	8151A	306868
480-101666-7 MS	R1 MW-7	Total/NA	Water	8151A	306868
480-101666-7 MSD	R1 MW-7	Total/NA	Water	8151A	306868
LCS 480-306868/2-A	Lab Control Sample	Total/NA	Water	8151A	306868
MB 480-306868/1-A	Method Blank	Total/NA	Water	8151A	306868

### Analysis Batch: 307100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Total/NA	Water	8082A	306934
480-101666-2	R1 MW-10	Total/NA	Water	8082A	306934

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## GC Semi VOA (Continued)

### Analysis Batch: 307100 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-3	R1 MW-8	Total/NA	Water	8082A	306934
480-101666-4	BLIND DUP	Total/NA	Water	8082A	306934
480-101666-5	R1 MW-6	Total/NA	Water	8082A	306934
480-101666-6	R1 MW-9	Total/NA	Water	8082A	306934
480-101666-7	R1 MW-7	Total/NA	Water	8082A	306934
480-101666-7 MS	R1 MW-7	Total/NA	Water	8082A	306934
480-101666-7 MSD	R1 MW-7	Total/NA	Water	8082A	306934
480-101666-8	R1 MW-2	Total/NA	Water	8082A	306934
480-101666-9	R1 MW-1	Total/NA	Water	8082A	306934
480-101666-10	R1 MW-4	Total/NA	Water	8082A	306934
480-101666-11	R1 MW-5	Total/NA	Water	8082A	306934
LCS 480-306934/2-A	Lab Control Sample	Total/NA	Water	8082A	306934
MB 480-306934/1-A	Method Blank	Total/NA	Water	8082A	306934

### Analysis Batch: 307203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-7	R1 MW-7	Total/NA	Water	8151A	306868
480-101666-8	R1 MW-2	Total/NA	Water	8151A	306868
480-101666-9	R1 MW-1	Total/NA	Water	8151A	306868
480-101666-10	R1 MW-4	Total/NA	Water	8151A	306868
480-101666-11	R1 MW-5	Total/NA	Water	8151A	306868

### Analysis Batch: 307210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Total/NA	Water	8081B	306937
480-101666-2	R1 MW-10	Total/NA	Water	8081B	306937
480-101666-3	R1 MW-8	Total/NA	Water	8081B	306937
480-101666-4	BLIND DUP	Total/NA	Water	8081B	306937
480-101666-5	R1 MW-6	Total/NA	Water	8081B	306937
480-101666-6	R1 MW-9	Total/NA	Water	8081B	306937
480-101666-7	R1 MW-7	Total/NA	Water	8081B	306937
480-101666-7 MS	R1 MW-7	Total/NA	Water	8081B	306937
480-101666-7 MSD	R1 MW-7	Total/NA	Water	8081B	306937
480-101666-8	R1 MW-2	Total/NA	Water	8081B	306937
480-101666-9	R1 MW-1	Total/NA	Water	8081B	306937
480-101666-10	R1 MW-4	Total/NA	Water	8081B	306937
480-101666-11	R1 MW-5	Total/NA	Water	8081B	306937
LCS 480-306937/2-A	Lab Control Sample	Total/NA	Water	8081B	306937
MB 480-306937/1-A	Method Blank	Total/NA	Water	8081B	306937

## Metals

### Prep Batch: 306851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Total/NA	Water	7470A	
480-101666-2	R1 MW-10	Total/NA	Water	7470A	
480-101666-3	R1 MW-8	Total/NA	Water	7470A	
480-101666-4	BLIND DUP	Total/NA	Water	7470A	
480-101666-5	R1 MW-6	Total/NA	Water	7470A	
480-101666-6	R1 MW-9	Total/NA	Water	7470A	

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# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Metals (Continued)

### Prep Batch: 306851 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-7	R1 MW-7	Total/NA	Water	7470A	
480-101666-7 MS	R1 MW-7	Total/NA	Water	7470A	
480-101666-7 MSD	R1 MW-7	Total/NA	Water	7470A	
480-101666-8	R1 MW-2	Total/NA	Water	7470A	
480-101666-9	R1 MW-1	Total/NA	Water	7470A	
480-101666-10	R1 MW-4	Total/NA	Water	7470A	
480-101666-11	R1 MW-5	Total/NA	Water	7470A	
LCS 480-306851/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-306851/1-A	Method Blank	Total/NA	Water	7470A	

### Prep Batch: 306931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Total/NA	Water	3005A	
480-101666-2	R1 MW-10	Total/NA	Water	3005A	
480-101666-3	R1 MW-8	Total/NA	Water	3005A	
480-101666-4	BLIND DUP	Total/NA	Water	3005A	
480-101666-5	R1 MW-6	Total/NA	Water	3005A	
480-101666-6	R1 MW-9	Total/NA	Water	3005A	
480-101666-7	R1 MW-7	Total/NA	Water	3005A	
480-101666-7 MS	R1 MW-7	Total/NA	Water	3005A	
480-101666-7 MSD	R1 MW-7	Total/NA	Water	3005A	
480-101666-8	R1 MW-2	Total/NA	Water	3005A	
480-101666-9	R1 MW-1	Total/NA	Water	3005A	
480-101666-10	R1 MW-4	Total/NA	Water	3005A	
480-101666-11	R1 MW-5	Total/NA	Water	3005A	
LCS 480-306931/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-306931/1-A	Method Blank	Total/NA	Water	3005A	

### Filtration Batch: 306970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Dissolved	Water	FILTRATION	
480-101666-3	R1 MW-8	Dissolved	Water	FILTRATION	
480-101666-7	R1 MW-7	Dissolved	Water	FILTRATION	
480-101666-7 MS	R1 MW-7	Dissolved	Water	FILTRATION	
480-101666-7 MSD	R1 MW-7	Dissolved	Water	FILTRATION	
480-101666-8	R1 MW-2	Dissolved	Water	FILTRATION	
480-101666-10	R1 MW-4	Dissolved	Water	FILTRATION	
480-101666-11	R1 MW-5	Dissolved	Water	FILTRATION	
LCS 480-306970/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-306970/2-D	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 480-306970/3-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
MB 480-306970/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-306970/1-D	Method Blank	Dissolved	Water	FILTRATION	

### Analysis Batch: 307021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Total/NA	Water	7470A	306851
480-101666-2	R1 MW-10	Total/NA	Water	7470A	306851
480-101666-3	R1 MW-8	Total/NA	Water	7470A	306851
480-101666-4	BLIND DUP	Total/NA	Water	7470A	306851
480-101666-5	R1 MW-6	Total/NA	Water	7470A	306851

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# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Metals (Continued)

### Analysis Batch: 307021 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-6	R1 MW-9	Total/NA	Water	7470A	306851
480-101666-7	R1 MW-7	Total/NA	Water	7470A	306851
480-101666-7 MS	R1 MW-7	Total/NA	Water	7470A	306851
480-101666-7 MSD	R1 MW-7	Total/NA	Water	7470A	306851
480-101666-8	R1 MW-2	Total/NA	Water	7470A	306851
480-101666-9	R1 MW-1	Total/NA	Water	7470A	306851
480-101666-10	R1 MW-4	Total/NA	Water	7470A	306851
480-101666-11	R1 MW-5	Total/NA	Water	7470A	306851
LCS 480-306851/2-A	Lab Control Sample	Total/NA	Water	7470A	306851
MB 480-306851/1-A	Method Blank	Total/NA	Water	7470A	306851

### Analysis Batch: 307150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Total/NA	Water	6010C	306931
480-101666-2	R1 MW-10	Total/NA	Water	6010C	306931
480-101666-3	R1 MW-8	Total/NA	Water	6010C	306931
480-101666-4	BLIND DUP	Total/NA	Water	6010C	306931
480-101666-5	R1 MW-6	Total/NA	Water	6010C	306931
480-101666-6	R1 MW-9	Total/NA	Water	6010C	306931
480-101666-7	R1 MW-7	Total/NA	Water	6010C	306931
480-101666-7 MS	R1 MW-7	Total/NA	Water	6010C	306931
480-101666-7 MSD	R1 MW-7	Total/NA	Water	6010C	306931
480-101666-8	R1 MW-2	Total/NA	Water	6010C	306931
480-101666-9	R1 MW-1	Total/NA	Water	6010C	306931
480-101666-10	R1 MW-4	Total/NA	Water	6010C	306931
480-101666-11	R1 MW-5	Total/NA	Water	6010C	306931
LCS 480-306931/2-A	Lab Control Sample	Total/NA	Water	6010C	306931
MB 480-306931/1-A	Method Blank	Total/NA	Water	6010C	306931

### Prep Batch: 307207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Dissolved	Water	3005A	306970
480-101666-3	R1 MW-8	Dissolved	Water	3005A	306970
480-101666-7	R1 MW-7	Dissolved	Water	3005A	306970
480-101666-7 MS	R1 MW-7	Dissolved	Water	3005A	306970
480-101666-7 MSD	R1 MW-7	Dissolved	Water	3005A	306970
480-101666-8	R1 MW-2	Dissolved	Water	3005A	306970
480-101666-10	R1 MW-4	Dissolved	Water	3005A	306970
480-101666-11	R1 MW-5	Dissolved	Water	3005A	306970
LCS 480-306970/2-B	Lab Control Sample	Dissolved	Water	3005A	306970
MB 480-306970/1-B	Method Blank	Dissolved	Water	3005A	306970

### Prep Batch: 307224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Dissolved	Water	7470A	306970
480-101666-3	R1 MW-8	Dissolved	Water	7470A	306970
480-101666-7	R1 MW-7	Dissolved	Water	7470A	306970
480-101666-7 MS	R1 MW-7	Dissolved	Water	7470A	306970
480-101666-7 MSD	R1 MW-7	Dissolved	Water	7470A	306970
480-101666-8	R1 MW-2	Dissolved	Water	7470A	306970
480-101666-10	R1 MW-4	Dissolved	Water	7470A	306970

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# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Metals (Continued)

### Prep Batch: 307224 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-11	R1 MW-5	Dissolved	Water	7470A	306970
LCS 480-306970/2-D	Lab Control Sample	Dissolved	Water	7470A	306970
LCSD 480-306970/3-B	Lab Control Sample Dup	Dissolved	Water	7470A	306970
MB 480-306970/1-D	Method Blank	Dissolved	Water	7470A	306970

### Analysis Batch: 307267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Dissolved	Water	7470A	307224
480-101666-3	R1 MW-8	Dissolved	Water	7470A	307224
480-101666-7	R1 MW-7	Dissolved	Water	7470A	307224
480-101666-7 MS	R1 MW-7	Dissolved	Water	7470A	307224
480-101666-7 MSD	R1 MW-7	Dissolved	Water	7470A	307224
480-101666-8	R1 MW-2	Dissolved	Water	7470A	307224
480-101666-10	R1 MW-4	Dissolved	Water	7470A	307224
480-101666-11	R1 MW-5	Dissolved	Water	7470A	307224
LCS 480-306970/2-D	Lab Control Sample	Dissolved	Water	7470A	307224
LCSD 480-306970/3-B	Lab Control Sample Dup	Dissolved	Water	7470A	307224
MB 480-306970/1-D	Method Blank	Dissolved	Water	7470A	307224

### Analysis Batch: 307433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-10	R1 MW-4	Total/NA	Water	6010C	306931

### Analysis Batch: 307435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Dissolved	Water	6010C	307207
480-101666-3	R1 MW-8	Dissolved	Water	6010C	307207
480-101666-7	R1 MW-7	Dissolved	Water	6010C	307207
480-101666-7 MS	R1 MW-7	Dissolved	Water	6010C	307207
480-101666-7 MSD	R1 MW-7	Dissolved	Water	6010C	307207
480-101666-8	R1 MW-2	Dissolved	Water	6010C	307207
480-101666-10	R1 MW-4	Dissolved	Water	6010C	307207
480-101666-11	R1 MW-5	Dissolved	Water	6010C	307207
LCS 480-306970/2-B	Lab Control Sample	Dissolved	Water	6010C	307207
MB 480-306970/1-B	Method Blank	Dissolved	Water	6010C	307207

## General Chemistry

### Prep Batch: 306976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Total/NA	Water	9012B	
480-101666-1 MS	R1 MW-3	Total/NA	Water	9012B	
480-101666-2	R1 MW-10	Total/NA	Water	9012B	
480-101666-3	R1 MW-8	Total/NA	Water	9012B	
480-101666-4	BLIND DUP	Total/NA	Water	9012B	
480-101666-5	R1 MW-6	Total/NA	Water	9012B	
480-101666-6	R1 MW-9	Total/NA	Water	9012B	
480-101666-7	R1 MW-7	Total/NA	Water	9012B	
480-101666-7 MS	R1 MW-7	Total/NA	Water	9012B	
480-101666-7 MSD	R1 MW-7	Total/NA	Water	9012B	

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## General Chemistry (Continued)

### Prep Batch: 306976 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-8	R1 MW-2	Total/NA	Water	9012B	
480-101666-9	R1 MW-1	Total/NA	Water	9012B	
480-101666-10	R1 MW-4	Total/NA	Water	9012B	
480-101666-11	R1 MW-5	Total/NA	Water	9012B	
LCS 480-306976/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-306976/3-A	Lab Control Sample	Total/NA	Water	9012B	
MB 480-306976/1-A	Method Blank	Total/NA	Water	9012B	

### Analysis Batch: 307222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101666-1	R1 MW-3	Total/NA	Water	9012B	306976
480-101666-1 MS	R1 MW-3	Total/NA	Water	9012B	306976
480-101666-2	R1 MW-10	Total/NA	Water	9012B	306976
480-101666-3	R1 MW-8	Total/NA	Water	9012B	306976
480-101666-4	BLIND DUP	Total/NA	Water	9012B	306976
480-101666-5	R1 MW-6	Total/NA	Water	9012B	306976
480-101666-6	R1 MW-9	Total/NA	Water	9012B	306976
480-101666-7	R1 MW-7	Total/NA	Water	9012B	306976
480-101666-7 MS	R1 MW-7	Total/NA	Water	9012B	306976
480-101666-7 MSD	R1 MW-7	Total/NA	Water	9012B	306976
480-101666-8	R1 MW-2	Total/NA	Water	9012B	306976
480-101666-9	R1 MW-1	Total/NA	Water	9012B	306976
480-101666-10	R1 MW-4	Total/NA	Water	9012B	306976
480-101666-11	R1 MW-5	Total/NA	Water	9012B	306976
LCS 480-306976/2-A	Lab Control Sample	Total/NA	Water	9012B	306976
LCS 480-306976/3-A	Lab Control Sample	Total/NA	Water	9012B	306976
MB 480-306976/1-A	Method Blank	Total/NA	Water	9012B	306976



# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-3**

**Date Collected: 06/14/16 13:00**

**Date Received: 06/15/16 14:05**

**Lab Sample ID: 480-101666-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	306892	06/16/16 00:44	SWO	TAL BUF
Total/NA	Prep	3510C			306932	06/16/16 07:48	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	307034	06/16/16 18:22	PJQ	TAL BUF
Total/NA	Prep	3510C			306937	06/16/16 08:00	RMZ	TAL BUF
Total/NA	Analysis	8081B		1	307210	06/17/16 12:37	MAN	TAL BUF
Total/NA	Prep	3510C			306934	06/16/16 07:53	CPH	TAL BUF
Total/NA	Analysis	8082A		1	307100	06/17/16 00:25	JMO	TAL BUF
Total/NA	Prep	8151A			306868	06/15/16 15:50	AVW	TAL BUF
Total/NA	Analysis	8151A		1	307040	06/16/16 23:24	JMO	TAL BUF
Dissolved	Filtration	FILTRATION			306970	06/16/16 11:15	KJ1	TAL BUF
Dissolved	Prep	3005A			307207	06/17/16 11:15	CMM	TAL BUF
Dissolved	Analysis	6010C		1	307435	06/17/16 22:44	SLB	TAL BUF
Total/NA	Prep	3005A			306931	06/16/16 07:34	BAE	TAL BUF
Total/NA	Analysis	6010C		1	307150	06/16/16 18:20	SLB	TAL BUF
Dissolved	Filtration	FILTRATION			306970	06/16/16 11:15	KJ1	TAL BUF
Dissolved	Prep	7470A			307224	06/17/16 11:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	307267	06/17/16 14:18	JRK	TAL BUF
Total/NA	Prep	7470A			306851	06/16/16 06:55	KJ1	TAL BUF
Total/NA	Analysis	7470A		1	307021	06/16/16 11:15	KJ1	TAL BUF
Total/NA	Prep	9012B			306976	06/16/16 10:12	JCL	TAL BUF
Total/NA	Analysis	9012B		1	307222	06/17/16 09:09	KMF	TAL BUF

**Client Sample ID: R1 MW-10**

**Date Collected: 06/14/16 11:05**

**Date Received: 06/15/16 14:05**

**Lab Sample ID: 480-101666-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	306892	06/16/16 01:11	SWO	TAL BUF
Total/NA	Prep	3510C			306932	06/16/16 07:48	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	307218	06/17/16 15:16	PJQ	TAL BUF
Total/NA	Prep	3510C			306937	06/16/16 08:00	RMZ	TAL BUF
Total/NA	Analysis	8081B		5	307210	06/17/16 12:57	MAN	TAL BUF
Total/NA	Prep	3510C			306934	06/16/16 07:53	CPH	TAL BUF
Total/NA	Analysis	8082A		1	307100	06/17/16 00:40	JMO	TAL BUF
Total/NA	Prep	8151A			306868	06/15/16 15:50	AVW	TAL BUF
Total/NA	Analysis	8151A		1	307040	06/16/16 23:54	JMO	TAL BUF
Total/NA	Prep	3005A			306931	06/16/16 07:34	BAE	TAL BUF
Total/NA	Analysis	6010C		1	307150	06/16/16 18:24	SLB	TAL BUF
Total/NA	Prep	7470A			306851	06/16/16 06:55	KJ1	TAL BUF
Total/NA	Analysis	7470A		1	307021	06/16/16 11:20	KJ1	TAL BUF
Total/NA	Prep	9012B			306976	06/16/16 10:12	JCL	TAL BUF
Total/NA	Analysis	9012B		1	307222	06/17/16 09:12	KMF	TAL BUF

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# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-8**

**Lab Sample ID: 480-101666-3**

**Date Collected: 06/14/16 15:55**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	306892	06/16/16 01:38	SWO	TAL BUF
Total/NA	Prep	3510C			306932	06/16/16 07:48	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	307218	06/17/16 15:44	PJQ	TAL BUF
Total/NA	Prep	3510C			306937	06/16/16 08:00	RMZ	TAL BUF
Total/NA	Analysis	8081B		1	307210	06/17/16 13:17	MAN	TAL BUF
Total/NA	Prep	3510C			306934	06/16/16 07:53	CPH	TAL BUF
Total/NA	Analysis	8082A		1	307100	06/17/16 00:55	JMO	TAL BUF
Total/NA	Prep	8151A			306868	06/15/16 15:50	AVW	TAL BUF
Total/NA	Analysis	8151A		1	307040	06/17/16 00:24	JMO	TAL BUF
Dissolved	Filtration	FILTRATION			306970	06/16/16 11:15	KJ1	TAL BUF
Dissolved	Prep	3005A			307207	06/17/16 11:15	CMM	TAL BUF
Dissolved	Analysis	6010C		1	307435	06/17/16 22:47	SLB	TAL BUF
Total/NA	Prep	3005A			306931	06/16/16 07:34	BAE	TAL BUF
Total/NA	Analysis	6010C		1	307150	06/16/16 18:27	SLB	TAL BUF
Dissolved	Filtration	FILTRATION			306970	06/16/16 11:15	KJ1	TAL BUF
Dissolved	Prep	7470A			307224	06/17/16 11:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	307267	06/17/16 14:20	JRK	TAL BUF
Total/NA	Prep	7470A			306851	06/16/16 06:55	KJ1	TAL BUF
Total/NA	Analysis	7470A		1	307021	06/16/16 11:22	KJ1	TAL BUF
Total/NA	Prep	9012B			306976	06/16/16 10:12	JCL	TAL BUF
Total/NA	Analysis	9012B		1	307222	06/17/16 09:13	KMF	TAL BUF

**Client Sample ID: BLIND DUP**

**Lab Sample ID: 480-101666-4**

**Date Collected: 06/14/16 08:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	306892	06/16/16 02:05	SWO	TAL BUF
Total/NA	Prep	3510C			306932	06/16/16 07:48	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	307218	06/17/16 16:13	PJQ	TAL BUF
Total/NA	Prep	3510C			306937	06/16/16 08:00	RMZ	TAL BUF
Total/NA	Analysis	8081B		5	307210	06/17/16 13:36	MAN	TAL BUF
Total/NA	Prep	3510C			306934	06/16/16 07:53	CPH	TAL BUF
Total/NA	Analysis	8082A		1	307100	06/17/16 01:11	JMO	TAL BUF
Total/NA	Prep	8151A			306868	06/15/16 15:50	AVW	TAL BUF
Total/NA	Analysis	8151A		1	307040	06/17/16 00:54	JMO	TAL BUF
Total/NA	Prep	3005A			306931	06/16/16 07:34	BAE	TAL BUF
Total/NA	Analysis	6010C		1	307150	06/16/16 18:31	SLB	TAL BUF
Total/NA	Prep	7470A			306851	06/16/16 06:55	KJ1	TAL BUF
Total/NA	Analysis	7470A		1	307021	06/16/16 11:24	KJ1	TAL BUF
Total/NA	Prep	9012B			306976	06/16/16 10:12	JCL	TAL BUF
Total/NA	Analysis	9012B		1	307222	06/17/16 09:14	KMF	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-6**

**Lab Sample ID: 480-101666-5**

**Date Collected: 06/14/16 17:00**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	306892	06/16/16 02:32	SWO	TAL BUF
Total/NA	Prep	3510C			306932	06/16/16 07:48	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	307218	06/17/16 16:42	PJQ	TAL BUF
Total/NA	Prep	3510C			306937	06/16/16 08:00	RMZ	TAL BUF
Total/NA	Analysis	8081B		1	307210	06/17/16 13:56	MAN	TAL BUF
Total/NA	Prep	3510C			306934	06/16/16 07:53	CPH	TAL BUF
Total/NA	Analysis	8082A		1	307100	06/17/16 01:26	JMO	TAL BUF
Total/NA	Prep	8151A			306868	06/15/16 15:50	AVW	TAL BUF
Total/NA	Analysis	8151A		1	307040	06/17/16 01:24	JMO	TAL BUF
Total/NA	Prep	3005A			306931	06/16/16 07:34	BAE	TAL BUF
Total/NA	Analysis	6010C		1	307150	06/16/16 18:34	SLB	TAL BUF
Total/NA	Prep	7470A			306851	06/16/16 06:55	KJ1	TAL BUF
Total/NA	Analysis	7470A		1	307021	06/16/16 11:26	KJ1	TAL BUF
Total/NA	Prep	9012B			306976	06/16/16 10:12	JCL	TAL BUF
Total/NA	Analysis	9012B		1	307222	06/17/16 09:16	KMF	TAL BUF

**Client Sample ID: R1 MW-9**

**Lab Sample ID: 480-101666-6**

**Date Collected: 06/14/16 12:20**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	80	307089	06/16/16 23:59	GTG	TAL BUF
Total/NA	Analysis	8260C		2	306892	06/16/16 02:59	SWO	TAL BUF
Total/NA	Prep	3510C			306932	06/16/16 07:48	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	307218	06/17/16 17:10	PJQ	TAL BUF
Total/NA	Prep	3510C			306937	06/16/16 08:00	RMZ	TAL BUF
Total/NA	Analysis	8081B		5	307210	06/17/16 14:16	MAN	TAL BUF
Total/NA	Prep	3510C			306934	06/16/16 07:53	CPH	TAL BUF
Total/NA	Analysis	8082A		1	307100	06/17/16 01:41	JMO	TAL BUF
Total/NA	Prep	8151A			306868	06/15/16 15:50	AVW	TAL BUF
Total/NA	Analysis	8151A		1	307040	06/17/16 01:54	JMO	TAL BUF
Total/NA	Prep	3005A			306931	06/16/16 07:34	BAE	TAL BUF
Total/NA	Analysis	6010C		1	307150	06/16/16 18:37	SLB	TAL BUF
Total/NA	Prep	7470A			306851	06/16/16 06:55	KJ1	TAL BUF
Total/NA	Analysis	7470A		1	307021	06/16/16 11:28	KJ1	TAL BUF
Total/NA	Prep	9012B			306976	06/16/16 10:12	JCL	TAL BUF
Total/NA	Analysis	9012B		1	307222	06/17/16 09:20	KMF	TAL BUF

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-7**

**Lab Sample ID: 480-101666-7**

**Date Collected: 06/14/16 14:15**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	306892	06/16/16 03:26	SWO	TAL BUF
Total/NA	Prep	3510C			306932	06/16/16 07:48	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	307034	06/16/16 21:14	PJQ	TAL BUF
Total/NA	Prep	3510C			306937	06/16/16 08:00	RMZ	TAL BUF
Total/NA	Analysis	8081B		1	307210	06/17/16 14:36	MAN	TAL BUF
Total/NA	Prep	3510C			306934	06/16/16 07:53	CPH	TAL BUF
Total/NA	Analysis	8082A		1	307100	06/17/16 01:57	JMO	TAL BUF
Total/NA	Prep	8151A			306868	06/15/16 15:50	AVW	TAL BUF
Total/NA	Analysis	8151A		1	307203	06/17/16 11:40	JMO	TAL BUF
Dissolved	Filtration	FILTRATION			306970	06/16/16 11:15	KJ1	TAL BUF
Dissolved	Prep	3005A			307207	06/17/16 11:15	CMM	TAL BUF
Dissolved	Analysis	6010C		1	307435	06/17/16 22:51	SLB	TAL BUF
Total/NA	Prep	3005A			306931	06/16/16 07:34	BAE	TAL BUF
Total/NA	Analysis	6010C		1	307150	06/16/16 18:41	SLB	TAL BUF
Dissolved	Filtration	FILTRATION			306970	06/16/16 11:15	KJ1	TAL BUF
Dissolved	Prep	7470A			307224	06/17/16 11:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	307267	06/17/16 14:21	JRK	TAL BUF
Total/NA	Prep	7470A			306851	06/16/16 06:55	KJ1	TAL BUF
Total/NA	Analysis	7470A		1	307021	06/16/16 11:29	KJ1	TAL BUF
Total/NA	Prep	9012B			306976	06/16/16 10:12	JCL	TAL BUF
Total/NA	Analysis	9012B		1	307222	06/17/16 09:22	KMF	TAL BUF

**Client Sample ID: R1 MW-2**

**Lab Sample ID: 480-101666-8**

**Date Collected: 06/14/16 18:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	306892	06/16/16 03:53	SWO	TAL BUF
Total/NA	Prep	3510C			307271	06/17/16 15:18	AVW	TAL BUF
Total/NA	Analysis	8270D		1	307365	06/18/16 18:26	PJQ	TAL BUF
Total/NA	Prep	3510C			306937	06/16/16 08:00	RMZ	TAL BUF
Total/NA	Analysis	8081B		5	307210	06/17/16 14:55	MAN	TAL BUF
Total/NA	Prep	3510C			306934	06/16/16 07:53	CPH	TAL BUF
Total/NA	Analysis	8082A		1	307100	06/17/16 02:12	JMO	TAL BUF
Total/NA	Prep	8151A			306868	06/15/16 15:50	AVW	TAL BUF
Total/NA	Analysis	8151A		1	307203	06/17/16 12:10	JMO	TAL BUF
Dissolved	Filtration	FILTRATION			306970	06/16/16 11:15	KJ1	TAL BUF
Dissolved	Prep	3005A			307207	06/17/16 11:15	CMM	TAL BUF
Dissolved	Analysis	6010C		1	307435	06/17/16 23:17	SLB	TAL BUF
Total/NA	Prep	3005A			306931	06/16/16 07:34	BAE	TAL BUF
Total/NA	Analysis	6010C		1	307150	06/16/16 19:08	SLB	TAL BUF
Dissolved	Filtration	FILTRATION			306970	06/16/16 11:15	KJ1	TAL BUF
Dissolved	Prep	7470A			307224	06/17/16 11:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	307267	06/17/16 14:33	JRK	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-2**

**Lab Sample ID: 480-101666-8**

**Date Collected: 06/14/16 18:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			306851	06/16/16 06:55	KJ1	TAL BUF
Total/NA	Analysis	7470A		1	307021	06/16/16 11:35	KJ1	TAL BUF
Total/NA	Prep	9012B			306976	06/16/16 10:12	JCL	TAL BUF
Total/NA	Analysis	9012B		1	307222	06/17/16 09:26	KMF	TAL BUF

**Client Sample ID: R1 MW-1**

**Lab Sample ID: 480-101666-9**

**Date Collected: 06/14/16 18:23**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	306892	06/16/16 04:19	SWO	TAL BUF
Total/NA	Prep	3510C			306932	06/16/16 07:48	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	307034	06/16/16 22:11	PJQ	TAL BUF
Total/NA	Prep	3510C			306937	06/16/16 08:00	RMZ	TAL BUF
Total/NA	Analysis	8081B		1	307210	06/17/16 15:15	MAN	TAL BUF
Total/NA	Prep	3510C			306934	06/16/16 07:53	CPH	TAL BUF
Total/NA	Analysis	8082A		1	307100	06/17/16 02:28	JMO	TAL BUF
Total/NA	Prep	8151A			306868	06/15/16 15:50	AVW	TAL BUF
Total/NA	Analysis	8151A		1	307203	06/17/16 12:40	JMO	TAL BUF
Total/NA	Prep	3005A			306931	06/16/16 07:34	BAE	TAL BUF
Total/NA	Analysis	6010C		1	307150	06/16/16 19:11	SLB	TAL BUF
Total/NA	Prep	7470A			306851	06/16/16 06:55	KJ1	TAL BUF
Total/NA	Analysis	7470A		1	307021	06/16/16 11:37	KJ1	TAL BUF
Total/NA	Prep	9012B			306976	06/16/16 10:12	JCL	TAL BUF
Total/NA	Analysis	9012B		1	307222	06/17/16 09:27	KMF	TAL BUF

**Client Sample ID: R1 MW-4**

**Lab Sample ID: 480-101666-10**

**Date Collected: 06/14/16 14:48**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	5	306967	06/16/16 18:49	SMY	TAL BUF
Total/NA	Analysis	8260C		1	306892	06/16/16 04:46	SWO	TAL BUF
Total/NA	Prep	3510C			306932	06/16/16 07:48	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	307034	06/16/16 22:40	PJQ	TAL BUF
Total/NA	Prep	3510C			306937	06/16/16 08:00	RMZ	TAL BUF
Total/NA	Analysis	8081B		1	307210	06/17/16 15:35	MAN	TAL BUF
Total/NA	Prep	3510C			306934	06/16/16 07:53	CPH	TAL BUF
Total/NA	Analysis	8082A		1	307100	06/17/16 02:43	JMO	TAL BUF
Total/NA	Prep	8151A			306868	06/15/16 15:50	AVW	TAL BUF
Total/NA	Analysis	8151A		1	307203	06/17/16 13:10	JMO	TAL BUF
Dissolved	Filtration	FILTRATION			306970	06/16/16 11:15	KJ1	TAL BUF
Dissolved	Prep	3005A			307207	06/17/16 11:15	CMM	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: R1 MW-4**

**Lab Sample ID: 480-101666-10**

**Date Collected: 06/14/16 14:48**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010C		1	307435	06/17/16 23:21	SLB	TAL BUF
Total/NA	Prep	3005A			306931	06/16/16 07:34	BAE	TAL BUF
Total/NA	Analysis	6010C		1	307150	06/16/16 19:15	SLB	TAL BUF
Total/NA	Prep	3005A			306931	06/16/16 07:34	BAE	TAL BUF
Total/NA	Analysis	6010C		2	307433	06/17/16 11:00	SLB	TAL BUF
Dissolved	Filtration	FILTRATION			306970	06/16/16 11:15	KJ1	TAL BUF
Dissolved	Prep	7470A			307224	06/17/16 11:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	307267	06/17/16 14:35	JRK	TAL BUF
Total/NA	Prep	7470A			306851	06/16/16 06:55	KJ1	TAL BUF
Total/NA	Analysis	7470A		1	307021	06/16/16 11:43	KJ1	TAL BUF
Total/NA	Prep	9012B			306976	06/16/16 10:12	JCL	TAL BUF
Total/NA	Analysis	9012B		1	307222	06/17/16 09:29	KMF	TAL BUF

**Client Sample ID: R1 MW-5**

**Lab Sample ID: 480-101666-11**

**Date Collected: 06/14/16 16:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	306892	06/16/16 05:13	SWO	TAL BUF
Total/NA	Prep	3510C			306932	06/16/16 07:48	RMZ	TAL BUF
Total/NA	Analysis	8270D		1	307034	06/16/16 23:09	PJQ	TAL BUF
Total/NA	Prep	3510C			306937	06/16/16 08:00	RMZ	TAL BUF
Total/NA	Analysis	8081B		1	307210	06/17/16 15:54	MAN	TAL BUF
Total/NA	Prep	3510C			306934	06/16/16 07:53	CPH	TAL BUF
Total/NA	Analysis	8082A		1	307100	06/17/16 02:59	JMO	TAL BUF
Total/NA	Prep	8151A			306868	06/15/16 15:50	AVW	TAL BUF
Total/NA	Analysis	8151A		1	307203	06/17/16 14:20	JMO	TAL BUF
Dissolved	Filtration	FILTRATION			306970	06/16/16 11:15	KJ1	TAL BUF
Dissolved	Prep	3005A			307207	06/17/16 11:15	CMM	TAL BUF
Dissolved	Analysis	6010C		1	307435	06/17/16 23:28	SLB	TAL BUF
Total/NA	Prep	3005A			306931	06/16/16 07:34	BAE	TAL BUF
Total/NA	Analysis	6010C		1	307150	06/16/16 19:18	SLB	TAL BUF
Dissolved	Filtration	FILTRATION			306970	06/16/16 11:15	KJ1	TAL BUF
Dissolved	Prep	7470A			307224	06/17/16 11:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	307267	06/17/16 14:36	JRK	TAL BUF
Total/NA	Prep	7470A			306851	06/16/16 06:55	KJ1	TAL BUF
Total/NA	Analysis	7470A		1	307021	06/16/16 11:44	KJ1	TAL BUF
Total/NA	Prep	9012B			306976	06/16/16 10:12	JCL	TAL BUF
Total/NA	Analysis	9012B		1	307222	06/17/16 09:30	KMF	TAL BUF

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 480-101666-13**

**Date Collected: 06/14/16 18:05**

**Matrix: Water**

**Date Received: 06/15/16 14:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	306967	06/16/16 17:59	SMY	TAL BUF

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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# Certification Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

## Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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# Method Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable	SW846	TAL BUF

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Sample Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-101666-1	R1 MW-3	Water	06/14/16 13:00	06/15/16 14:05
480-101666-2	R1 MW-10	Water	06/14/16 11:05	06/15/16 14:05
480-101666-3	R1 MW-8	Water	06/14/16 15:55	06/15/16 14:05
480-101666-4	BLIND DUP	Water	06/14/16 08:00	06/15/16 14:05
480-101666-5	R1 MW-6	Water	06/14/16 17:00	06/15/16 14:05
480-101666-6	R1 MW-9	Water	06/14/16 12:20	06/15/16 14:05
480-101666-7	R1 MW-7	Water	06/14/16 14:15	06/15/16 14:05
480-101666-8	R1 MW-2	Water	06/14/16 18:05	06/15/16 14:05
480-101666-9	R1 MW-1	Water	06/14/16 18:23	06/15/16 14:05
480-101666-10	R1 MW-4	Water	06/14/16 14:48	06/15/16 14:05
480-101666-11	R1 MW-5	Water	06/14/16 16:05	06/15/16 14:05
480-101666-13	TRIP BLANK	Water	06/14/16 18:05	06/15/16 14:05

# Chain of Custody Record

Temperature on Receipt \_\_\_\_\_

Drinking Water? Yes  No

# TestAmeri

THE LEADER IN ENVIRONMENTAL



480-101666 Chain of Custody

TAL-4124 (1007)

Client <b>SW Turnkey Environmental Restoration, LLC</b>		Project Manager <b>Brian Fischer Chris Baron</b>		Date <b>6-15-16</b>	Chain of Custody Number <b>290038</b>
Address <b>2558 Hamburg Turnpike</b>		Telephone Number (Area Code)/Fax Number		Lab Number	Page <b>1</b> of <b>1</b>

City <b>Buffalo</b>	State <b>NY</b>	Zip Code <b>14216</b>	Site Contact <b>Paul W. Nathman</b>	Lab Contact <b>B. Fischer</b>	Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
Project Name and Location (State) <b>791 Washington Street</b>			Carrier/Waybill Number			

Contract/Purchase Order/Quote No. <b>T0092-013-500</b>	Matrix	Containers & Preservatives	TCL Vials	TCL SVCS	TAL Metals + Gravel	TCL PCBs	TCL Pest + Herb	Dissolved Metals
---	--------	----------------------------	-----------	----------	---------------------	----------	-----------------	------------------

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives						TCL Vials	TCL SVCS	TAL Metals + Gravel	TCL PCBs	TCL Pest + Herb	Dissolved Metals
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc2/NaOH						
R1 MW-3	6-14-16	13:00		X			X	X	X	X		X	X	X	X	X	X	
R1 MW-10	6-14-16	11:05		X			X	X	X		X	X	X	X	X			
R1 MW-8	6-14-16	15:55		X			X	X	X		X	X	X	X	X	X		
Blind Dip	6-14-16	8:00		X			X	X	X		X	X	X	X				
R1 MW-6	6-14-16	17:00		X			X	X	X		X	X	X	X				
R1 MW-9	6-14-16	12:20		X			X	X	X		X	X	X	X				
R1 MW-7 (MS/MSD)	6-14-16	14:15		X			X	X	X		X	X	X	X	X			
R1 MW-2	6-14-16	18:05		X			X	X	X		X	X	X	X	X			
R1 MW-1	6-14-16	18:23		X			X	X	X		X	X	X	X				
R1 MW-4	6-14-16	14:48		X			X	X	X		X	X	X	X	X			
R1 MW-5	6-14-16	16:05		X			X	X	X		X	X	X	X	X			
Trip Blank Equipment Blank	6-14-16	18:05		X							X							

\* Pull dissolved metals from extra herbicide liter.  
\* dissolved metals filter in lab.

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)
---	--	---

Turn Around Time Required <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input checked="" type="checkbox"/> Other <b>30day</b>	QC Requirements (Specify) <b>CAT B.</b>
---	--

1. Relinquished By <i>Conrad Dunder</i>	Date <b>6-15-16</b>	Time <b>9:20</b>	1. Received By <i>Bob Hill</i>	Date <b>6/15/16</b>	Time <b>11:55</b>
2. Relinquished By <i>Bob Hill</i>	Date <b>6/15/16</b>	Time <b>1405</b>	2. Received By <i>Bob Hill</i>	Date <b>6/15/16</b>	Time <b>1405</b>
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: **30, 2.8, 2.9, 2.6, 2.0, 2.4, 2.1 #1**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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6/20/2016



## Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-101666-1

**Login Number: 101666**

**List Number: 1**

**Creator: Janish, Carl M**

**List Source: TestAmerica Buffalo**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BMTK
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



## ANALYTICAL REPORT

Lab Number:	L1637141
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	791 WASHINGTON STREET
Project Number:	0092-016-001-005-002
Report Date:	11/22/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1637141-01	RISB-32 (7-8)	SOIL	BUFFALO, NY	11/15/16 13:14	11/15/16
L1637141-02	RISB-27 (11-12)	SOIL	BUFFALO, NY	11/15/16 10:26	11/15/16
L1637141-03	RISB-26 (3-4)	SOIL	BUFFALO, NY	11/15/16 09:45	11/15/16
L1637141-04	RISB-27 (7-8)	SOIL	BUFFALO, NY	11/15/16 10:07	11/15/16
L1637141-05	BLIND DUP #1	SOIL	BUFFALO, NY	11/15/16 12:00	11/15/16
L1637141-06	RISB-28 (4-6)	SOIL	BUFFALO, NY	11/15/16 11:10	11/15/16
L1637141-07	RISB-35 (5-7)	SOIL	BUFFALO, NY	11/15/16 14:37	11/15/16
L1637141-08	S-14	SOIL	BUFFALO, NY	11/15/16 14:48	11/15/16
L1637141-09	S-12	SOIL	BUFFALO, NY	11/15/16 14:46	11/15/16
L1637141-10	S-15	SOIL	BUFFALO, NY	11/15/16 14:52	11/15/16

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

### Case Narrative (continued)

#### Report Submission

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

#### Volatile Organics

L1637141-08, -09 and -10: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

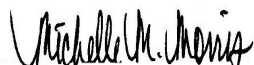
L1637141-01 was analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported.

L1637141-10: The internal standard (IS) response(s) for 1,4-dichlorobenzene-d4 (40%) and the surrogate recovery for 4-bromofluorobenzene (165%) were outside the acceptance criteria; however, re-analysis achieved similar results: 1,4-dichlorobenzene-d4 (38%) and 4-bromofluorobenzene (155%). The results of both analyses are reported

The WG954335-10 Method Blank, associated with L1637141-01, has a concentration above the reporting limit for bromomethane. Since the sample was non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 11/22/16



# ORGANICS

# VOLATILES

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-01  
**Client ID:** RISB-32 (7-8)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/21/16 09:33  
**Analyst:** JC  
**Percent Solids:** 86%

**Date Collected:** 11/15/16 13:14  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	1.0	J	ug/kg	8.4	0.93	1
1,1-Dichloroethane	2.3		ug/kg	1.3	0.07	1
Chloroform	ND		ug/kg	1.3	0.31	1
Carbon tetrachloride	ND		ug/kg	0.84	0.18	1
1,2-Dichloropropane	ND		ug/kg	2.9	0.19	1
Dibromochloromethane	ND		ug/kg	0.84	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.26	1
Tetrachloroethene	ND		ug/kg	0.84	0.12	1
Chlorobenzene	ND		ug/kg	0.84	0.29	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.33	1
1,2-Dichloroethane	ND		ug/kg	0.84	0.10	1
1,1,1-Trichloroethane	ND		ug/kg	0.84	0.09	1
Bromodichloromethane	ND		ug/kg	0.84	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	0.84	0.10	1
cis-1,3-Dichloropropene	ND		ug/kg	0.84	0.10	1
Bromoform	ND		ug/kg	3.4	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.84	0.09	1
Benzene	ND		ug/kg	0.84	0.10	1
Toluene	ND		ug/kg	1.3	0.16	1
Ethylbenzene	ND		ug/kg	0.84	0.11	1
Chloromethane	ND		ug/kg	4.2	0.25	1
Bromomethane	ND		ug/kg	1.7	0.28	1
Vinyl chloride	ND		ug/kg	1.7	0.10	1
Chloroethane	ND		ug/kg	1.7	0.26	1
1,1-Dichloroethene	1.6		ug/kg	0.84	0.22	1
trans-1,2-Dichloroethene	310	E	ug/kg	1.3	0.18	1
Trichloroethene	24		ug/kg	0.84	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.11	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.12	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-01  
 Client ID: RISB-32 (7-8)  
 Sample Location: BUFFALO, NY

Date Collected: 11/15/16 13:14  
 Date Received: 11/15/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.7	0.07	1
p/m-Xylene	ND		ug/kg	1.7	0.30	1
o-Xylene	ND		ug/kg	1.7	0.28	1
cis-1,2-Dichloroethene	170		ug/kg	0.84	0.12	1
Styrene	ND		ug/kg	1.7	0.34	1
Dichlorodifluoromethane	ND		ug/kg	8.4	0.16	1
Acetone	9.1		ug/kg	8.4	0.87	1
Carbon disulfide	ND		ug/kg	8.4	0.93	1
2-Butanone	ND		ug/kg	8.4	0.23	1
4-Methyl-2-pentanone	ND		ug/kg	8.4	0.20	1
2-Hexanone	ND		ug/kg	8.4	0.56	1
Bromochloromethane	ND		ug/kg	4.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	3.4	0.15	1
n-Butylbenzene	ND		ug/kg	0.84	0.10	1
sec-Butylbenzene	ND		ug/kg	0.84	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	0.33	1
Isopropylbenzene	ND		ug/kg	0.84	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.84	0.10	1
n-Propylbenzene	ND		ug/kg	0.84	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.2	0.12	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.2	0.15	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	0.12	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	0.12	1
Methyl Acetate	ND		ug/kg	17	0.23	1
Cyclohexane	ND		ug/kg	17	0.12	1
1,4-Dioxane	ND		ug/kg	84	12.	1
Freon-113	ND		ug/kg	17	0.23	1
Methyl cyclohexane	ND		ug/kg	3.4	0.13	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-01  
**Client ID:** RISB-32 (7-8)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/22/16 09:37  
**Analyst:** BN  
**Percent Solids:** 86%

**Date Collected:** 11/15/16 13:14  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	89	J	ug/kg	580	64.	1
1,1-Dichloroethane	ND		ug/kg	87	5.0	1
Chloroform	ND		ug/kg	87	22.	1
Carbon tetrachloride	ND		ug/kg	58	12.	1
1,2-Dichloropropane	ND		ug/kg	200	13.	1
Dibromochloromethane	ND		ug/kg	58	8.9	1
1,1,2-Trichloroethane	ND		ug/kg	87	18.	1
Tetrachloroethene	ND		ug/kg	58	8.2	1
Chlorobenzene	ND		ug/kg	58	20.	1
Trichlorofluoromethane	ND		ug/kg	290	22.	1
1,2-Dichloroethane	ND		ug/kg	58	6.6	1
1,1,1-Trichloroethane	ND		ug/kg	58	6.4	1
Bromodichloromethane	ND		ug/kg	58	10.	1
trans-1,3-Dichloropropene	ND		ug/kg	58	7.0	1
cis-1,3-Dichloropropene	ND		ug/kg	58	6.8	1
Bromoform	ND		ug/kg	230	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	58	5.8	1
Benzene	ND		ug/kg	58	6.8	1
Toluene	ND		ug/kg	87	11.	1
Ethylbenzene	ND		ug/kg	58	7.4	1
Chloromethane	ND		ug/kg	290	17.	1
Bromomethane	ND		ug/kg	120	20.	1
Vinyl chloride	ND		ug/kg	120	6.8	1
Chloroethane	ND		ug/kg	120	18.	1
1,1-Dichloroethene	ND		ug/kg	58	15.	1
trans-1,2-Dichloroethene	590		ug/kg	87	12.	1
Trichloroethene	180		ug/kg	58	7.3	1
1,2-Dichlorobenzene	ND		ug/kg	290	8.9	1
1,3-Dichlorobenzene	ND		ug/kg	290	7.8	1
1,4-Dichlorobenzene	ND		ug/kg	290	8.0	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-01  
 Client ID: RISB-32 (7-8)  
 Sample Location: BUFFALO, NY

Date Collected: 11/15/16 13:14  
 Date Received: 11/15/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	120	4.9	1
p/m-Xylene	ND		ug/kg	120	20.	1
o-Xylene	ND		ug/kg	120	20.	1
cis-1,2-Dichloroethene	340		ug/kg	58	8.3	1
Styrene	ND		ug/kg	120	23.	1
Dichlorodifluoromethane	ND		ug/kg	580	11.	1
Acetone	ND		ug/kg	580	60.	1
Carbon disulfide	ND		ug/kg	580	64.	1
2-Butanone	ND		ug/kg	580	16.	1
4-Methyl-2-pentanone	ND		ug/kg	580	14.	1
2-Hexanone	ND		ug/kg	580	39.	1
Bromochloromethane	ND		ug/kg	290	16.	1
1,2-Dibromoethane	ND		ug/kg	230	10.	1
n-Butylbenzene	ND		ug/kg	58	6.7	1
sec-Butylbenzene	ND		ug/kg	58	7.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	290	23.	1
Isopropylbenzene	ND		ug/kg	58	6.0	1
p-Isopropyltoluene	ND		ug/kg	58	7.3	1
n-Propylbenzene	ND		ug/kg	58	6.3	1
1,2,3-Trichlorobenzene	ND		ug/kg	290	8.6	1
1,2,4-Trichlorobenzene	ND		ug/kg	290	10.	1
1,3,5-Trimethylbenzene	ND		ug/kg	290	8.3	1
1,2,4-Trimethylbenzene	ND		ug/kg	290	8.2	1
Methyl Acetate	ND		ug/kg	1200	16.	1
Cyclohexane	ND		ug/kg	1200	8.5	1
1,4-Dioxane	ND		ug/kg	5800	840	1
Freon-113	ND		ug/kg	1200	16.	1
Methyl cyclohexane	ND		ug/kg	230	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	112		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-02  
**Client ID:** RISB-27 (11-12)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/20/16 13:32  
**Analyst:** BN  
**Percent Solids:** 78%

**Date Collected:** 11/15/16 10:26  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	850	94.	1
1,1-Dichloroethane	26	J	ug/kg	130	7.3	1
Chloroform	ND		ug/kg	130	32.	1
Carbon tetrachloride	ND		ug/kg	85	18.	1
1,2-Dichloropropane	ND		ug/kg	300	19.	1
Dibromochloromethane	ND		ug/kg	85	13.	1
1,1,2-Trichloroethane	ND		ug/kg	130	26.	1
Tetrachloroethene	ND		ug/kg	85	12.	1
Chlorobenzene	ND		ug/kg	85	30.	1
Trichlorofluoromethane	ND		ug/kg	430	33.	1
1,2-Dichloroethane	ND		ug/kg	85	9.7	1
1,1,1-Trichloroethane	ND		ug/kg	85	9.4	1
Bromodichloromethane	ND		ug/kg	85	15.	1
trans-1,3-Dichloropropene	ND		ug/kg	85	10.	1
cis-1,3-Dichloropropene	ND		ug/kg	85	10.	1
Bromoform	ND		ug/kg	340	20.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	85	8.6	1
Benzene	ND		ug/kg	85	10.	1
Toluene	ND		ug/kg	130	17.	1
Ethylbenzene	ND		ug/kg	85	11.	1
Chloromethane	ND		ug/kg	430	25.	1
Bromomethane	ND		ug/kg	170	29.	1
Vinyl chloride	ND		ug/kg	170	10.	1
Chloroethane	ND		ug/kg	170	27.	1
1,1-Dichloroethene	ND		ug/kg	85	22.	1
trans-1,2-Dichloroethene	180		ug/kg	130	18.	1
Trichloroethene	2800		ug/kg	85	11.	1
1,2-Dichlorobenzene	ND		ug/kg	430	13.	1
1,3-Dichlorobenzene	ND		ug/kg	430	12.	1
1,4-Dichlorobenzene	ND		ug/kg	430	12.	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-02  
 Client ID: RISB-27 (11-12)  
 Sample Location: BUFFALO, NY

Date Collected: 11/15/16 10:26  
 Date Received: 11/15/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	170	7.2	1
p/m-Xylene	ND		ug/kg	170	30.	1
o-Xylene	ND		ug/kg	170	29.	1
cis-1,2-Dichloroethene	850		ug/kg	85	12.	1
Styrene	ND		ug/kg	170	34.	1
Dichlorodifluoromethane	ND		ug/kg	850	16.	1
Acetone	ND		ug/kg	850	88.	1
Carbon disulfide	ND		ug/kg	850	94.	1
2-Butanone	ND		ug/kg	850	23.	1
4-Methyl-2-pentanone	ND		ug/kg	850	21.	1
2-Hexanone	ND		ug/kg	850	57.	1
Bromochloromethane	ND		ug/kg	430	24.	1
1,2-Dibromoethane	ND		ug/kg	340	15.	1
n-Butylbenzene	ND		ug/kg	85	9.8	1
sec-Butylbenzene	ND		ug/kg	85	10.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	430	34.	1
Isopropylbenzene	ND		ug/kg	85	8.8	1
p-Isopropyltoluene	ND		ug/kg	85	11.	1
n-Propylbenzene	ND		ug/kg	85	9.3	1
1,2,3-Trichlorobenzene	ND		ug/kg	430	12.	1
1,2,4-Trichlorobenzene	ND		ug/kg	430	16.	1
1,3,5-Trimethylbenzene	ND		ug/kg	430	12.	1
1,2,4-Trimethylbenzene	ND		ug/kg	430	12.	1
Methyl Acetate	ND		ug/kg	1700	23.	1
Cyclohexane	ND		ug/kg	1700	12.	1
1,4-Dioxane	ND		ug/kg	8500	1200	1
Freon-113	ND		ug/kg	1700	23.	1
Methyl cyclohexane	18	J	ug/kg	340	13.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	96		70-130



**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-04  
**Client ID:** RISB-27 (7-8)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/20/16 13:58  
**Analyst:** BN  
**Percent Solids:** 84%

**Date Collected:** 11/15/16 10:07  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	550	60.	1
1,1-Dichloroethane	ND		ug/kg	82	4.7	1
Chloroform	ND		ug/kg	82	20.	1
Carbon tetrachloride	ND		ug/kg	55	11.	1
1,2-Dichloropropane	ND		ug/kg	190	12.	1
Dibromochloromethane	ND		ug/kg	55	8.4	1
1,1,2-Trichloroethane	ND		ug/kg	82	17.	1
Tetrachloroethene	ND		ug/kg	55	7.6	1
Chlorobenzene	ND		ug/kg	55	19.	1
Trichlorofluoromethane	ND		ug/kg	270	21.	1
1,2-Dichloroethane	ND		ug/kg	55	6.2	1
1,1,1-Trichloroethane	ND		ug/kg	55	6.0	1
Bromodichloromethane	ND		ug/kg	55	9.4	1
trans-1,3-Dichloropropene	ND		ug/kg	55	6.6	1
cis-1,3-Dichloropropene	ND		ug/kg	55	6.4	1
Bromoform	ND		ug/kg	220	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	55	5.5	1
Benzene	ND		ug/kg	55	6.4	1
Toluene	ND		ug/kg	82	11.	1
Ethylbenzene	ND		ug/kg	55	7.0	1
Chloromethane	ND		ug/kg	270	16.	1
Bromomethane	ND		ug/kg	110	18.	1
Vinyl chloride	ND		ug/kg	110	6.4	1
Chloroethane	ND		ug/kg	110	17.	1
1,1-Dichloroethene	ND		ug/kg	55	14.	1
trans-1,2-Dichloroethene	79	J	ug/kg	82	12.	1
Trichloroethene	1900		ug/kg	55	6.8	1
1,2-Dichlorobenzene	ND		ug/kg	270	8.4	1
1,3-Dichlorobenzene	ND		ug/kg	270	7.4	1
1,4-Dichlorobenzene	ND		ug/kg	270	7.6	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-04

Date Collected: 11/15/16 10:07

Client ID: RISB-27 (7-8)

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	110	4.6	1
p/m-Xylene	ND		ug/kg	110	19.	1
o-Xylene	ND		ug/kg	110	18.	1
cis-1,2-Dichloroethene	340		ug/kg	55	7.8	1
Styrene	ND		ug/kg	110	22.	1
Dichlorodifluoromethane	ND		ug/kg	550	10.	1
Acetone	ND		ug/kg	550	56.	1
Carbon disulfide	ND		ug/kg	550	60.	1
2-Butanone	ND		ug/kg	550	15.	1
4-Methyl-2-pentanone	ND		ug/kg	550	13.	1
2-Hexanone	ND		ug/kg	550	36.	1
Bromochloromethane	ND		ug/kg	270	15.	1
1,2-Dibromoethane	ND		ug/kg	220	9.5	1
n-Butylbenzene	ND		ug/kg	55	6.3	1
sec-Butylbenzene	ND		ug/kg	55	6.7	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	270	22.	1
Isopropylbenzene	ND		ug/kg	55	5.7	1
p-Isopropyltoluene	ND		ug/kg	55	6.8	1
n-Propylbenzene	ND		ug/kg	55	6.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	270	8.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	270	9.9	1
1,3,5-Trimethylbenzene	ND		ug/kg	270	7.8	1
1,2,4-Trimethylbenzene	ND		ug/kg	270	7.7	1
Methyl Acetate	ND		ug/kg	1100	15.	1
Cyclohexane	ND		ug/kg	1100	8.0	1
1,4-Dioxane	ND		ug/kg	5500	790	1
Freon-113	ND		ug/kg	1100	15.	1
Methyl cyclohexane	ND		ug/kg	220	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	96		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-05  
**Client ID:** BLIND DUP #1  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/20/16 14:24  
**Analyst:** BN  
**Percent Solids:** 82%

**Date Collected:** 11/15/16 12:00  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	570	62.	1
1,1-Dichloroethane	ND		ug/kg	85	4.8	1
Chloroform	ND		ug/kg	85	21.	1
Carbon tetrachloride	ND		ug/kg	57	12.	1
1,2-Dichloropropane	ND		ug/kg	200	13.	1
Dibromochloromethane	ND		ug/kg	57	8.7	1
1,1,2-Trichloroethane	ND		ug/kg	85	17.	1
Tetrachloroethene	ND		ug/kg	57	7.9	1
Chlorobenzene	ND		ug/kg	57	20.	1
Trichlorofluoromethane	ND		ug/kg	280	22.	1
1,2-Dichloroethane	ND		ug/kg	57	6.4	1
1,1,1-Trichloroethane	ND		ug/kg	57	6.3	1
Bromodichloromethane	ND		ug/kg	57	9.8	1
trans-1,3-Dichloropropene	ND		ug/kg	57	6.8	1
cis-1,3-Dichloropropene	ND		ug/kg	57	6.7	1
Bromoform	ND		ug/kg	230	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	57	5.7	1
Benzene	ND		ug/kg	57	6.7	1
Toluene	ND		ug/kg	85	11.	1
Ethylbenzene	ND		ug/kg	57	7.2	1
Chloromethane	ND		ug/kg	280	17.	1
Bromomethane	ND		ug/kg	110	19.	1
Vinyl chloride	ND		ug/kg	110	6.6	1
Chloroethane	ND		ug/kg	110	18.	1
1,1-Dichloroethene	ND		ug/kg	57	15.	1
trans-1,2-Dichloroethene	130		ug/kg	85	12.	1
Trichloroethene	2500		ug/kg	57	7.1	1
1,2-Dichlorobenzene	ND		ug/kg	280	8.7	1
1,3-Dichlorobenzene	ND		ug/kg	280	7.6	1
1,4-Dichlorobenzene	ND		ug/kg	280	7.8	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-05  
 Client ID: BLIND DUP #1  
 Sample Location: BUFFALO, NY

Date Collected: 11/15/16 12:00  
 Date Received: 11/15/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	110	4.8	1
p/m-Xylene	ND		ug/kg	110	20.	1
o-Xylene	ND		ug/kg	110	19.	1
cis-1,2-Dichloroethene	370		ug/kg	57	8.1	1
Styrene	ND		ug/kg	110	23.	1
Dichlorodifluoromethane	ND		ug/kg	570	11.	1
Acetone	ND		ug/kg	570	59.	1
Carbon disulfide	ND		ug/kg	570	62.	1
2-Butanone	ND		ug/kg	570	15.	1
4-Methyl-2-pentanone	ND		ug/kg	570	14.	1
2-Hexanone	ND		ug/kg	570	38.	1
Bromochloromethane	ND		ug/kg	280	16.	1
1,2-Dibromoethane	ND		ug/kg	230	9.9	1
n-Butylbenzene	ND		ug/kg	57	6.5	1
sec-Butylbenzene	ND		ug/kg	57	6.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	280	22.	1
Isopropylbenzene	ND		ug/kg	57	5.9	1
p-Isopropyltoluene	ND		ug/kg	57	7.1	1
n-Propylbenzene	ND		ug/kg	57	6.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	280	8.4	1
1,2,4-Trichlorobenzene	ND		ug/kg	280	10.	1
1,3,5-Trimethylbenzene	ND		ug/kg	280	8.1	1
1,2,4-Trimethylbenzene	ND		ug/kg	280	8.0	1
Methyl Acetate	ND		ug/kg	1100	15.	1
Cyclohexane	ND		ug/kg	1100	8.3	1
1,4-Dioxane	ND		ug/kg	5700	820	1
Freon-113	ND		ug/kg	1100	16.	1
Methyl cyclohexane	20	J	ug/kg	230	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	95		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-06  
**Client ID:** RISB-28 (4-6)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/20/16 14:49  
**Analyst:** BN  
**Percent Solids:** 88%

**Date Collected:** 11/15/16 11:10  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	480	54.	1
1,1-Dichloroethane	43	J	ug/kg	73	4.2	1
Chloroform	ND		ug/kg	73	18.	1
Carbon tetrachloride	ND		ug/kg	48	10.	1
1,2-Dichloropropane	ND		ug/kg	170	11.	1
Dibromochloromethane	ND		ug/kg	48	7.5	1
1,1,2-Trichloroethane	ND		ug/kg	73	15.	1
Tetrachloroethene	ND		ug/kg	48	6.8	1
Chlorobenzene	ND		ug/kg	48	17.	1
Trichlorofluoromethane	ND		ug/kg	240	19.	1
1,2-Dichloroethane	ND		ug/kg	48	5.5	1
1,1,1-Trichloroethane	ND		ug/kg	48	5.4	1
Bromodichloromethane	ND		ug/kg	48	8.4	1
trans-1,3-Dichloropropene	ND		ug/kg	48	5.9	1
cis-1,3-Dichloropropene	ND		ug/kg	48	5.7	1
Bromoform	ND		ug/kg	190	11.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	48	4.9	1
Benzene	ND		ug/kg	48	5.7	1
Toluene	ND		ug/kg	73	9.5	1
Ethylbenzene	ND		ug/kg	48	6.2	1
Chloromethane	ND		ug/kg	240	14.	1
Bromomethane	ND		ug/kg	97	16.	1
Vinyl chloride	ND		ug/kg	97	5.7	1
Chloroethane	ND		ug/kg	97	15.	1
1,1-Dichloroethene	ND		ug/kg	48	13.	1
trans-1,2-Dichloroethene	21	J	ug/kg	73	10.	1
Trichloroethene	5400		ug/kg	48	6.1	1
1,2-Dichlorobenzene	ND		ug/kg	240	7.4	1
1,3-Dichlorobenzene	ND		ug/kg	240	6.6	1
1,4-Dichlorobenzene	ND		ug/kg	240	6.7	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-06

Date Collected: 11/15/16 11:10

Client ID: RISB-28 (4-6)

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	97	4.1	1
p/m-Xylene	ND		ug/kg	97	17.	1
o-Xylene	ND		ug/kg	97	16.	1
cis-1,2-Dichloroethene	580		ug/kg	48	6.9	1
Styrene	ND		ug/kg	97	20.	1
Dichlorodifluoromethane	ND		ug/kg	480	9.3	1
Acetone	ND		ug/kg	480	50.	1
Carbon disulfide	ND		ug/kg	480	54.	1
2-Butanone	ND		ug/kg	480	13.	1
4-Methyl-2-pentanone	ND		ug/kg	480	12.	1
2-Hexanone	ND		ug/kg	480	32.	1
Bromochloromethane	ND		ug/kg	240	13.	1
1,2-Dibromoethane	ND		ug/kg	190	8.5	1
n-Butylbenzene	ND		ug/kg	48	5.6	1
sec-Butylbenzene	ND		ug/kg	48	5.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	240	19.	1
Isopropylbenzene	ND		ug/kg	48	5.0	1
p-Isopropyltoluene	ND		ug/kg	48	6.1	1
n-Propylbenzene	ND		ug/kg	48	5.3	1
1,2,3-Trichlorobenzene	ND		ug/kg	240	7.2	1
1,2,4-Trichlorobenzene	ND		ug/kg	240	8.8	1
1,3,5-Trimethylbenzene	ND		ug/kg	240	7.0	1
1,2,4-Trimethylbenzene	ND		ug/kg	240	6.9	1
Methyl Acetate	ND		ug/kg	970	13.	1
Cyclohexane	ND		ug/kg	970	7.1	1
1,4-Dioxane	ND		ug/kg	4800	700	1
Freon-113	ND		ug/kg	970	13.	1
Methyl cyclohexane	52	J	ug/kg	190	7.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-07  
**Client ID:** RISB-35 (5-7)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/20/16 18:51  
**Analyst:** JC  
**Percent Solids:** 88%

**Date Collected:** 11/15/16 14:37  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	1.7	J	ug/kg	9.8	1.1	1
1,1-Dichloroethane	75		ug/kg	1.5	0.08	1
Chloroform	ND		ug/kg	1.5	0.36	1
Carbon tetrachloride	ND		ug/kg	0.98	0.21	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.98	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30	1
Tetrachloroethene	ND		ug/kg	0.98	0.14	1
Chlorobenzene	0.79	J	ug/kg	0.98	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.11	1
1,1,1-Trichloroethane	ND		ug/kg	0.98	0.11	1
Bromodichloromethane	ND		ug/kg	0.98	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	0.98	0.12	1
Bromoform	ND		ug/kg	3.9	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.98	0.10	1
Benzene	0.36	J	ug/kg	0.98	0.12	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.98	0.12	1
Chloromethane	ND		ug/kg	4.9	0.29	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.12	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	10		ug/kg	0.98	0.26	1
trans-1,2-Dichloroethene	22		ug/kg	1.5	0.21	1
Trichloroethene	140		ug/kg	0.98	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.14	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-07

Date Collected: 11/15/16 14:37

Client ID: RISB-35 (5-7)

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.0	0.08	1
p/m-Xylene	ND		ug/kg	2.0	0.34	1
o-Xylene	ND		ug/kg	2.0	0.33	1
cis-1,2-Dichloroethene	19		ug/kg	0.98	0.14	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.19	1
Acetone	9.4	J	ug/kg	9.8	1.0	1
Carbon disulfide	ND		ug/kg	9.8	1.1	1
2-Butanone	ND		ug/kg	9.8	0.27	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	0.24	1
2-Hexanone	ND		ug/kg	9.8	0.65	1
Bromochloromethane	ND		ug/kg	4.9	0.27	1
1,2-Dibromoethane	ND		ug/kg	3.9	0.17	1
n-Butylbenzene	ND		ug/kg	0.98	0.11	1
sec-Butylbenzene	ND		ug/kg	0.98	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.39	1
Isopropylbenzene	ND		ug/kg	0.98	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.12	1
n-Propylbenzene	ND		ug/kg	0.98	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.14	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.9	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.9	0.14	1
Methyl Acetate	ND		ug/kg	20	0.26	1
Cyclohexane	1.2	J	ug/kg	20	0.14	1
1,4-Dioxane	ND		ug/kg	98	14.	1
Freon-113	ND		ug/kg	20	0.27	1
Methyl cyclohexane	ND		ug/kg	3.9	0.15	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	101		70-130



**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-08  
**Client ID:** S-14  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/21/16 10:14  
**Analyst:** JC  
**Percent Solids:** 57%

**Date Collected:** 11/15/16 14:48  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	2.8	J	ug/kg	17	1.9	1
1,1-Dichloroethane	1.2	J	ug/kg	2.6	0.15	1
Chloroform	ND		ug/kg	2.6	0.65	1
Carbon tetrachloride	ND		ug/kg	1.7	0.37	1
1,2-Dichloropropane	ND		ug/kg	6.1	0.40	1
Dibromochloromethane	ND		ug/kg	1.7	0.27	1
1,1,2-Trichloroethane	ND		ug/kg	2.6	0.53	1
Tetrachloroethene	0.87	J	ug/kg	1.7	0.24	1
Chlorobenzene	8.2		ug/kg	1.7	0.61	1
Trichlorofluoromethane	ND		ug/kg	8.7	0.68	1
1,2-Dichloroethane	ND		ug/kg	1.7	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	1.7	0.19	1
Bromodichloromethane	ND		ug/kg	1.7	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	1.7	0.20	1
Bromoform	ND		ug/kg	7.0	0.41	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.7	0.18	1
Benzene	0.72	J	ug/kg	1.7	0.21	1
Toluene	86		ug/kg	2.6	0.34	1
Ethylbenzene	14		ug/kg	1.7	0.22	1
Chloromethane	ND		ug/kg	8.7	0.51	1
Bromomethane	ND		ug/kg	3.5	0.59	1
Vinyl chloride	0.44	J	ug/kg	3.5	0.20	1
Chloroethane	ND		ug/kg	3.5	0.55	1
1,1-Dichloroethene	0.66	J	ug/kg	1.7	0.46	1
trans-1,2-Dichloroethene	2.3	J	ug/kg	2.6	0.37	1
Trichloroethene	160		ug/kg	1.7	0.22	1
1,2-Dichlorobenzene	0.64	J	ug/kg	8.7	0.27	1
1,3-Dichlorobenzene	ND		ug/kg	8.7	0.24	1
1,4-Dichlorobenzene	0.53	J	ug/kg	8.7	0.24	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-08

Date Collected: 11/15/16 14:48

Client ID: S-14

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.5	0.15	1
p/m-Xylene	75		ug/kg	3.5	0.61	1
o-Xylene	23		ug/kg	3.5	0.59	1
cis-1,2-Dichloroethene	14		ug/kg	1.7	0.25	1
Styrene	ND		ug/kg	3.5	0.70	1
Dichlorodifluoromethane	ND		ug/kg	17	0.33	1
Acetone	200		ug/kg	17	1.8	1
Carbon disulfide	ND		ug/kg	17	1.9	1
2-Butanone	45		ug/kg	17	0.48	1
4-Methyl-2-pentanone	2.9	J	ug/kg	17	0.43	1
2-Hexanone	ND		ug/kg	17	1.2	1
Bromochloromethane	ND		ug/kg	8.7	0.48	1
1,2-Dibromoethane	ND		ug/kg	7.0	0.30	1
n-Butylbenzene	1.0	J	ug/kg	1.7	0.20	1
sec-Butylbenzene	1.2	J	ug/kg	1.7	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.7	0.69	1
Isopropylbenzene	6.1		ug/kg	1.7	0.18	1
p-Isopropyltoluene	4.2		ug/kg	1.7	0.22	1
n-Propylbenzene	2.4		ug/kg	1.7	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	8.7	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	8.7	0.32	1
1,3,5-Trimethylbenzene	6.2	J	ug/kg	8.7	0.25	1
1,2,4-Trimethylbenzene	17		ug/kg	8.7	0.25	1
Methyl Acetate	ND		ug/kg	35	0.47	1
Cyclohexane	3.1	J	ug/kg	35	0.26	1
1,4-Dioxane	ND		ug/kg	170	25.	1
Freon-113	ND		ug/kg	35	0.48	1
Methyl cyclohexane	27		ug/kg	7.0	0.27	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	129		70-130
Dibromofluoromethane	100		70-130

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-09  
 Client ID: S-12  
 Sample Location: BUFFALO, NY  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 11/21/16 10:41  
 Analyst: JC  
 Percent Solids: 91%

Date Collected: 11/15/16 14:46  
 Date Received: 11/15/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	1.9	J	ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	1.5		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	5.2		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.5	0.32	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	0.79	J	ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
1,4-Dichlorobenzene	0.72	J	ug/kg	5.5	0.15	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-09

Date Collected: 11/15/16 14:46

Client ID: S-12

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1
p/m-Xylene	ND		ug/kg	2.2	0.39	1
o-Xylene	ND		ug/kg	2.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	ND		ug/kg	11	1.1	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.30	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
2-Hexanone	ND		ug/kg	11	0.74	1
Bromochloromethane	ND		ug/kg	5.5	0.30	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.19	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.44	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
Methyl Acetate	ND		ug/kg	22	0.30	1
Cyclohexane	ND		ug/kg	22	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
Freon-113	ND		ug/kg	22	0.30	1
Methyl cyclohexane	ND		ug/kg	4.4	0.17	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-10  
**Client ID:** S-15  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/21/16 11:07  
**Analyst:** JC  
**Percent Solids:** 52%

**Date Collected:** 11/15/16 14:52  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	3.5	J	ug/kg	19	2.1	1
1,1-Dichloroethane	ND		ug/kg	2.9	0.16	1
Chloroform	ND		ug/kg	2.9	0.71	1
Carbon tetrachloride	ND		ug/kg	1.9	0.40	1
1,2-Dichloropropane	ND		ug/kg	6.7	0.44	1
Dibromochloromethane	ND		ug/kg	1.9	0.30	1
1,1,2-Trichloroethane	ND		ug/kg	2.9	0.58	1
Tetrachloroethene	1.9		ug/kg	1.9	0.27	1
Chlorobenzene	ND		ug/kg	1.9	0.67	1
Trichlorofluoromethane	ND		ug/kg	9.6	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.9	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	1.9	0.21	1
Bromodichloromethane	ND		ug/kg	1.9	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.9	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.9	0.23	1
Bromoform	ND		ug/kg	7.7	0.45	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.9	0.19	1
Benzene	2.1		ug/kg	1.9	0.23	1
Toluene	2.4	J	ug/kg	2.9	0.37	1
Ethylbenzene	1.1	J	ug/kg	1.9	0.24	1
Chloromethane	ND		ug/kg	9.6	0.56	1
Bromomethane	ND		ug/kg	3.8	0.65	1
Vinyl chloride	ND		ug/kg	3.8	0.22	1
Chloroethane	ND		ug/kg	3.8	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.9	0.50	1
trans-1,2-Dichloroethene	ND		ug/kg	2.9	0.41	1
Trichloroethene	7.8		ug/kg	1.9	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	9.6	0.29	1
1,3-Dichlorobenzene	ND		ug/kg	9.6	0.26	1
1,4-Dichlorobenzene	0.50	J	ug/kg	9.6	0.27	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-10

Date Collected: 11/15/16 14:52

Client ID: S-15

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.8	0.16	1
p/m-Xylene	3.4	J	ug/kg	3.8	0.68	1
o-Xylene	1.9	J	ug/kg	3.8	0.65	1
cis-1,2-Dichloroethene	1.2	J	ug/kg	1.9	0.27	1
Styrene	ND		ug/kg	3.8	0.77	1
Dichlorodifluoromethane	ND		ug/kg	19	0.37	1
Acetone	280		ug/kg	19	2.0	1
Carbon disulfide	ND		ug/kg	19	2.1	1
2-Butanone	23		ug/kg	19	0.52	1
4-Methyl-2-pentanone	4.4	J	ug/kg	19	0.47	1
2-Hexanone	ND		ug/kg	19	1.3	1
Bromochloromethane	ND		ug/kg	9.6	0.53	1
1,2-Dibromoethane	ND		ug/kg	7.7	0.34	1
n-Butylbenzene	ND		ug/kg	1.9	0.22	1
sec-Butylbenzene	ND		ug/kg	1.9	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.6	0.76	1
Isopropylbenzene	0.77	J	ug/kg	1.9	0.20	1
p-Isopropyltoluene	2.3		ug/kg	1.9	0.24	1
n-Propylbenzene	1.0	J	ug/kg	1.9	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	9.6	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	9.6	0.35	1
1,3,5-Trimethylbenzene	4.2	J	ug/kg	9.6	0.28	1
1,2,4-Trimethylbenzene	8.2	J	ug/kg	9.6	0.27	1
Methyl Acetate	ND		ug/kg	38	0.52	1
Cyclohexane	5.4	J	ug/kg	38	0.28	1
1,4-Dioxane	ND		ug/kg	190	28.	1
Freon-113	ND		ug/kg	38	0.53	1
Methyl cyclohexane	1.6	J	ug/kg	7.7	0.30	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	165	Q	70-130
Dibromofluoromethane	102		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-10 R  
**Client ID:** S-15  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/22/16 10:55  
**Analyst:** BN  
**Percent Solids:** 52%

**Date Collected:** 11/15/16 14:52  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	3.2	J	ug/kg	19	2.1	1
1,1-Dichloroethane	ND		ug/kg	2.9	0.16	1
Chloroform	ND		ug/kg	2.9	0.71	1
Carbon tetrachloride	ND		ug/kg	1.9	0.40	1
1,2-Dichloropropane	ND		ug/kg	6.7	0.44	1
Dibromochloromethane	ND		ug/kg	1.9	0.30	1
1,1,2-Trichloroethane	ND		ug/kg	2.9	0.58	1
Tetrachloroethene	2.5		ug/kg	1.9	0.27	1
Chlorobenzene	ND		ug/kg	1.9	0.67	1
Trichlorofluoromethane	ND		ug/kg	9.6	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.9	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	1.9	0.21	1
Bromodichloromethane	ND		ug/kg	1.9	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.9	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.9	0.23	1
Bromoform	ND		ug/kg	7.7	0.45	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.9	0.19	1
Benzene	2.4		ug/kg	1.9	0.23	1
Toluene	2.5	J	ug/kg	2.9	0.37	1
Ethylbenzene	1.6	J	ug/kg	1.9	0.24	1
Chloromethane	ND		ug/kg	9.6	0.56	1
Bromomethane	ND		ug/kg	3.8	0.65	1
Vinyl chloride	ND		ug/kg	3.8	0.22	1
Chloroethane	ND		ug/kg	3.8	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.9	0.50	1
trans-1,2-Dichloroethene	ND		ug/kg	2.9	0.41	1
Trichloroethene	10		ug/kg	1.9	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	9.6	0.29	1
1,3-Dichlorobenzene	ND		ug/kg	9.6	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	9.6	0.27	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-10 R

Date Collected: 11/15/16 14:52

Client ID: S-15

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.8	0.16	1
p/m-Xylene	4.3		ug/kg	3.8	0.68	1
o-Xylene	2.7	J	ug/kg	3.8	0.65	1
cis-1,2-Dichloroethene	1.6	J	ug/kg	1.9	0.27	1
Styrene	ND		ug/kg	3.8	0.77	1
Dichlorodifluoromethane	ND		ug/kg	19	0.37	1
Acetone	290		ug/kg	19	2.0	1
Carbon disulfide	ND		ug/kg	19	2.1	1
2-Butanone	33		ug/kg	19	0.52	1
4-Methyl-2-pentanone	ND		ug/kg	19	0.47	1
2-Hexanone	ND		ug/kg	19	1.3	1
Bromochloromethane	ND		ug/kg	9.6	0.53	1
1,2-Dibromoethane	ND		ug/kg	7.7	0.34	1
n-Butylbenzene	ND		ug/kg	1.9	0.22	1
sec-Butylbenzene	ND		ug/kg	1.9	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.6	0.76	1
Isopropylbenzene	0.99	J	ug/kg	1.9	0.20	1
p-Isopropyltoluene	3.8		ug/kg	1.9	0.24	1
n-Propylbenzene	1.4	J	ug/kg	1.9	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	9.6	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	9.6	0.35	1
1,3,5-Trimethylbenzene	5.7	J	ug/kg	9.6	0.28	1
1,2,4-Trimethylbenzene	13		ug/kg	9.6	0.27	1
Methyl Acetate	ND		ug/kg	38	0.52	1
Cyclohexane	7.5	J	ug/kg	38	0.28	1
1,4-Dioxane	ND		ug/kg	190	28.	1
Freon-113	ND		ug/kg	38	0.53	1
Methyl cyclohexane	2.5	J	ug/kg	7.7	0.30	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	155	Q	70-130
Dibromofluoromethane	102		70-130



Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-00

Report Date: 11/22/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/21/16 08:38  
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG954335-10					
Methylene chloride	1.2	J	ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	2.2		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-00

Report Date: 11/22/16

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/21/16 08:38  
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG954335-10					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

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Report Date: 11/22/16

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/21/16 08:38  
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG954335-10					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	97		70-130

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

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Report Date: 11/22/16

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/20/16 12:53  
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG954335-5					
Methylene chloride	1.7	J	ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	0.92	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14

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**Lab Number:** L1637141  
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**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/20/16 12:53  
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG954335-5					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15

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**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/20/16 12:53  
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG954335-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	93		70-130

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**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/20/16 13:07  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,04-06 Batch: WG954357-5					
Methylene chloride	ND		ug/kg	500	55.
1,1-Dichloroethane	ND		ug/kg	75	4.3
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	7.7
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	19.
1,2-Dichloroethane	ND		ug/kg	50	5.7
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	8.7
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	5.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	5.0
Benzene	ND		ug/kg	50	5.9
Toluene	ND		ug/kg	75	9.7
Ethylbenzene	ND		ug/kg	50	6.4
Chloromethane	ND		ug/kg	250	15.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	5.9
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	13.
trans-1,2-Dichloroethene	ND		ug/kg	75	11.
Trichloroethene	ND		ug/kg	50	6.2
1,2-Dichlorobenzene	ND		ug/kg	250	7.7
1,3-Dichlorobenzene	ND		ug/kg	250	6.8

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**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/20/16 13:07  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,04-06 Batch: WG954357-5					
1,4-Dichlorobenzene	ND		ug/kg	250	6.9
Methyl tert butyl ether	ND		ug/kg	100	4.2
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.1
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	9.5
Acetone	ND		ug/kg	500	52.
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	14.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	14.
1,2-Dibromoethane	ND		ug/kg	200	8.7
n-Butylbenzene	ND		ug/kg	50	5.7
sec-Butylbenzene	ND		ug/kg	50	6.1
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Isopropylbenzene	ND		ug/kg	50	5.2
p-Isopropyltoluene	ND		ug/kg	50	6.2
n-Propylbenzene	ND		ug/kg	50	5.5
1,2,3-Trichlorobenzene	ND		ug/kg	250	7.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	9.1
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	7.1
Methyl Acetate	ND		ug/kg	1000	14.
Cyclohexane	ND		ug/kg	1000	7.3
1,4-Dioxane	ND		ug/kg	5000	720
Freon-113	ND		ug/kg	1000	14.
Methyl cyclohexane	ND		ug/kg	200	7.7



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**Method Blank Analysis  
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Analytical Method: 1,8260C  
 Analytical Date: 11/20/16 13:07  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,04-06 Batch: WG954357-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	97		70-130

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Lab Number: L1637141

Project Number: 0092-016-001-005-00

Report Date: 11/22/16

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/21/16 08:30  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-10 Batch: WG954698-5					
Methylene chloride	1.6	J	ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14

**Project Name:** 791 WASHINGTON STREET  
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**Lab Number:** L1637141  
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**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/21/16 08:30  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-10 Batch: WG954698-5					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15

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**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/21/16 08:30  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-10 Batch: WG954698-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 791 WASHINGTON STREET  
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**Lab Number:** L1637141  
**Report Date:** 11/22/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/22/16 09:03  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG954834-5					
Methylene chloride	1.3	J	ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-00

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/22/16 09:03  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG954834-5					
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylene (Total)	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene (total)	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-00

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**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/22/16 09:03  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG954834-5					
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12

Project Name: 791 WASHINGTON STREET

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**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/22/16 09:03  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG954834-5					
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	99		70-130



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**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/22/16 08:45  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG954851-5					
Methylene chloride	62	J	ug/kg	500	55.
1,1-Dichloroethane	ND		ug/kg	75	4.3
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	7.7
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	19.
1,2-Dichloroethane	ND		ug/kg	50	5.7
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	8.7
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	5.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	5.0
Benzene	ND		ug/kg	50	5.9
Toluene	ND		ug/kg	75	9.7
Ethylbenzene	ND		ug/kg	50	6.4
Chloromethane	ND		ug/kg	250	15.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	5.9
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	13.
trans-1,2-Dichloroethene	ND		ug/kg	75	11.
Trichloroethene	ND		ug/kg	50	6.2
1,2-Dichlorobenzene	ND		ug/kg	250	7.7
1,3-Dichlorobenzene	ND		ug/kg	250	6.8

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**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/22/16 08:45  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG954851-5					
1,4-Dichlorobenzene	ND		ug/kg	250	6.9
Methyl tert butyl ether	ND		ug/kg	100	4.2
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.1
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	9.5
Acetone	ND		ug/kg	500	52.
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	14.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	14.
1,2-Dibromoethane	ND		ug/kg	200	8.7
n-Butylbenzene	ND		ug/kg	50	5.7
sec-Butylbenzene	ND		ug/kg	50	6.1
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Isopropylbenzene	ND		ug/kg	50	5.2
p-Isopropyltoluene	ND		ug/kg	50	6.2
n-Propylbenzene	ND		ug/kg	50	5.5
1,2,3-Trichlorobenzene	ND		ug/kg	250	7.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	9.1
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	7.1
Methyl Acetate	ND		ug/kg	1000	14.
Cyclohexane	ND		ug/kg	1000	7.3
1,4-Dioxane	ND		ug/kg	5000	720
Freon-113	ND		ug/kg	1000	14.
Methyl cyclohexane	ND		ug/kg	200	7.7

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**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/22/16 08:45  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG954851-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	114		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG954335-3 WG954335-4								
Methylene chloride	115		114		70-130	1		30
1,1-Dichloroethane	108		105		70-130	3		30
Chloroform	110		109		70-130	1		30
Carbon tetrachloride	114		104		70-130	9		30
1,2-Dichloropropane	107		106		70-130	1		30
Dibromochloromethane	102		104		70-130	2		30
2-Chloroethylvinyl ether	93		94		70-130	1		30
1,1,2-Trichloroethane	98		101		70-130	3		30
Tetrachloroethene	110		102		70-130	8		30
Chlorobenzene	105		103		70-130	2		30
Trichlorofluoromethane	122		110		70-139	10		30
1,2-Dichloroethane	108		108		70-130	0		30
1,1,1-Trichloroethane	114		108		70-130	5		30
Bromodichloromethane	107		108		70-130	1		30
trans-1,3-Dichloropropene	93		94		70-130	1		30
cis-1,3-Dichloropropene	107		109		70-130	2		30
1,1-Dichloropropene	116		106		70-130	9		30
Bromoform	91		96		70-130	5		30
1,1,2,2-Tetrachloroethane	91		93		70-130	2		30
Benzene	107		104		70-130	3		30
Toluene	103		99		70-130	4		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG954335-3 WG954335-4								
Ethylbenzene	105		102		70-130	3		30
Chloromethane	113		107		52-130	5		30
Bromomethane	134		127		57-147	5		30
Vinyl chloride	121		108		67-130	11		30
Chloroethane	118		110		50-151	7		30
1,1-Dichloroethene	131		108		65-135	19		30
trans-1,2-Dichloroethene	114		109		70-130	4		30
Trichloroethene	112		108		70-130	4		30
1,2-Dichlorobenzene	100		97		70-130	3		30
1,3-Dichlorobenzene	100		97		70-130	3		30
1,4-Dichlorobenzene	100		98		70-130	2		30
Methyl tert butyl ether	106		109		66-130	3		30
p/m-Xylene	106		103		70-130	3		30
o-Xylene	106		104		70-130	2		30
cis-1,2-Dichloroethene	113		111		70-130	2		30
Dibromomethane	107		108		70-130	1		30
Styrene	106		104		70-130	2		30
Dichlorodifluoromethane	146		128		30-146	13		30
Acetone	96		106		54-140	10		30
Carbon disulfide	108		102		59-130	6		30
2-Butanone	89		88		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG954335-3 WG954335-4								
Vinyl acetate	99		100		70-130	1		30
4-Methyl-2-pentanone	84		90		70-130	7		30
1,2,3-Trichloropropane	91		93		68-130	2		30
2-Hexanone	81		85		70-130	5		30
Bromochloromethane	115		116		70-130	1		30
2,2-Dichloropropane	115		110		70-130	4		30
1,2-Dibromoethane	101		102		70-130	1		30
1,3-Dichloropropane	98		100		69-130	2		30
1,1,1,2-Tetrachloroethane	104		104		70-130	0		30
Bromobenzene	101		98		70-130	3		30
n-Butylbenzene	101		94		70-130	7		30
sec-Butylbenzene	101		94		70-130	7		30
tert-Butylbenzene	102		96		70-130	6		30
o-Chlorotoluene	99		96		70-130	3		30
p-Chlorotoluene	100		96		70-130	4		30
1,2-Dibromo-3-chloropropane	88		93		68-130	6		30
Hexachlorobutadiene	101		96		67-130	5		30
Isopropylbenzene	101		94		70-130	7		30
p-Isopropyltoluene	101		96		70-130	5		30
Naphthalene	91		93		70-130	2		30
Acrylonitrile	99		99		70-130	0		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG954335-3 WG954335-4								
Isopropyl Ether	97		96		66-130	1		30
tert-Butyl Alcohol	91		97		70-130	6		30
n-Propylbenzene	100		94		70-130	6		30
1,2,3-Trichlorobenzene	98		99		70-130	1		30
1,2,4-Trichlorobenzene	100		100		70-130	0		30
1,3,5-Trimethylbenzene	102		98		70-130	4		30
1,2,4-Trimethylbenzene	101		98		70-130	3		30
Methyl Acetate	88		92		51-146	4		30
Ethyl Acetate	90		93		70-130	3		30
Acrolein	87		90		70-130	3		30
Cyclohexane	107		97		59-142	10		30
1,4-Dioxane	92		93		65-136	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	113		101		50-139	11		30
p-Diethylbenzene	99		94		70-130	5		30
p-Ethyltoluene	97		93		70-130	4		30
1,2,4,5-Tetramethylbenzene	97		94		70-130	3		30
Tetrahydrofuran	95		101		66-130	6		30
Ethyl ether	118		103		67-130	14		30
trans-1,4-Dichloro-2-butene	92		92		70-130	0		30
Methyl cyclohexane	104		93		70-130	11		30
Ethyl-Tert-Butyl-Ether	101		102		70-130	1		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
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**Lab Number:** L1637141  
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG954335-3 WG954335-4								
Tertiary-Amyl Methyl Ether	101		101		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		96		70-130
Toluene-d8	96		97		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	97		97		70-130



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG954335-8 WG954335-9								
Methylene chloride	109		110		70-130	1		30
1,1-Dichloroethane	103		99		70-130	4		30
Chloroform	106		104		70-130	2		30
Carbon tetrachloride	104		94		70-130	10		30
1,2-Dichloropropane	101		98		70-130	3		30
Dibromochloromethane	96		96		70-130	0		30
2-Chloroethylvinyl ether	88		91		70-130	3		30
1,1,2-Trichloroethane	94		94		70-130	0		30
Tetrachloroethene	101		89		70-130	13		30
Chlorobenzene	97		93		70-130	4		30
Trichlorofluoromethane	116		98		70-139	17		30
1,2-Dichloroethane	111		111		70-130	0		30
1,1,1-Trichloroethane	110		100		70-130	10		30
Bromodichloromethane	104		104		70-130	0		30
trans-1,3-Dichloropropene	88		88		70-130	0		30
cis-1,3-Dichloropropene	101		101		70-130	0		30
1,1-Dichloropropene	106		95		70-130	11		30
Bromoform	84		86		70-130	2		30
1,1,2,2-Tetrachloroethane	84		87		70-130	4		30
Benzene	99		96		70-130	3		30
Toluene	95		88		70-130	8		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG954335-8 WG954335-9								
Ethylbenzene	97		90		70-130	7		30
Chloromethane	106		98		52-130	8		30
Bromomethane	126		120		57-147	5		30
Vinyl chloride	108		95		67-130	13		30
Chloroethane	111		97		50-151	13		30
1,1-Dichloroethene	98		94		65-135	4		30
trans-1,2-Dichloroethene	106		99		70-130	7		30
Trichloroethene	106		99		70-130	7		30
1,2-Dichlorobenzene	89		90		70-130	1		30
1,3-Dichlorobenzene	91		90		70-130	1		30
1,4-Dichlorobenzene	92		89		70-130	3		30
Methyl tert butyl ether	105		107		66-130	2		30
p/m-Xylene	98		90		70-130	9		30
o-Xylene	98		94		70-130	4		30
cis-1,2-Dichloroethene	105		102		70-130	3		30
Dibromomethane	104		105		70-130	1		30
Styrene	97		95		70-130	2		30
Dichlorodifluoromethane	137		110		30-146	22		30
Acetone	99		94		54-140	5		30
Carbon disulfide	87		90		59-130	3		30
2-Butanone	82		87		70-130	6		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG954335-8 WG954335-9								
Vinyl acetate	97		98		70-130	1		30
4-Methyl-2-pentanone	80		82		70-130	2		30
1,2,3-Trichloropropane	86		88		68-130	2		30
2-Hexanone	76		80		70-130	5		30
Bromochloromethane	108		108		70-130	0		30
2,2-Dichloropropane	108		100		70-130	8		30
1,2-Dibromoethane	94		94		70-130	0		30
1,3-Dichloropropane	94		92		69-130	2		30
1,1,1,2-Tetrachloroethane	96		95		70-130	1		30
Bromobenzene	90		90		70-130	0		30
n-Butylbenzene	89		82		70-130	8		30
sec-Butylbenzene	88		82		70-130	7		30
tert-Butylbenzene	90		84		70-130	7		30
o-Chlorotoluene	88		86		70-130	2		30
p-Chlorotoluene	90		88		70-130	2		30
1,2-Dibromo-3-chloropropane	76		81		68-130	6		30
Hexachlorobutadiene	92		82		67-130	11		30
Isopropylbenzene	89		84		70-130	6		30
p-Isopropyltoluene	90		84		70-130	7		30
Naphthalene	85		86		70-130	1		30
Acrylonitrile	94		93		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG954335-8 WG954335-9								
Isopropyl Ether	92		92		66-130	0		30
tert-Butyl Alcohol	89		92		70-130	3		30
n-Propylbenzene	89		82		70-130	8		30
1,2,3-Trichlorobenzene	93		90		70-130	3		30
1,2,4-Trichlorobenzene	91		88		70-130	3		30
1,3,5-Trimethylbenzene	91		88		70-130	3		30
1,2,4-Trimethylbenzene	92		88		70-130	4		30
Methyl Acetate	88		90		51-146	2		30
Ethyl Acetate	88		91		70-130	3		30
Acrolein	85		95		70-130	11		30
Cyclohexane	94		78		59-142	19		30
1,4-Dioxane	92		93		65-136	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	95		86		50-139	10		30
p-Diethylbenzene	87		82		70-130	6		30
p-Ethyltoluene	88		82		70-130	7		30
1,2,4,5-Tetramethylbenzene	87		85		70-130	2		30
Tetrahydrofuran	92		94		66-130	2		30
Ethyl ether	97		98		67-130	1		30
trans-1,4-Dichloro-2-butene	84		87		70-130	4		30
Methyl cyclohexane	91		76		70-130	18		30
Ethyl-Tert-Butyl-Ether	98		98		70-130	0		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG954335-8 WG954335-9								
Tertiary-Amyl Methyl Ether	96		98		70-130	2		30

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	97		94		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	100		101		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 Batch: WG954357-3 WG954357-4								
Methylene chloride	114		115		70-130	1		30
1,1-Dichloroethane	111		104		70-130	7		30
Chloroform	121		115		70-130	5		30
Carbon tetrachloride	114		100		70-130	13		30
1,2-Dichloropropane	107		105		70-130	2		30
Dibromochloromethane	105		107		70-130	2		30
2-Chloroethylvinyl ether	106		113		70-130	6		30
1,1,2-Trichloroethane	101		103		70-130	2		30
Tetrachloroethene	94		88		70-130	7		30
Chlorobenzene	103		101		70-130	2		30
Trichlorofluoromethane	105		85		70-139	21		30
1,2-Dichloroethane	107		107		70-130	0		30
1,1,1-Trichloroethane	119		104		70-130	13		30
Bromodichloromethane	123		120		70-130	2		30
trans-1,3-Dichloropropene	105		107		70-130	2		30
cis-1,3-Dichloropropene	122		122		70-130	0		30
1,1-Dichloropropene	120		104		70-130	14		30
Bromoform	96		95		70-130	1		30
1,1,2,2-Tetrachloroethane	109		110		70-130	1		30
Benzene	120		111		70-130	8		30
Toluene	103		98		70-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 Batch: WG954357-3 WG954357-4								
Ethylbenzene	104		97		70-130	7		30
Chloromethane	110		99		52-130	11		30
Bromomethane	123		111		57-147	10		30
Vinyl chloride	118		98		67-130	19		30
Chloroethane	134		116		50-151	14		30
1,1-Dichloroethene	117		101		65-135	15		30
trans-1,2-Dichloroethene	121		111		70-130	9		30
Trichloroethene	116		109		70-130	6		30
1,2-Dichlorobenzene	102		101		70-130	1		30
1,3-Dichlorobenzene	105		102		70-130	3		30
1,4-Dichlorobenzene	102		101		70-130	1		30
Methyl tert butyl ether	118		119		66-130	1		30
p/m-Xylene	103		98		70-130	5		30
o-Xylene	104		100		70-130	4		30
cis-1,2-Dichloroethene	121		116		70-130	4		30
Dibromomethane	115		114		70-130	1		30
Styrene	103		102		70-130	1		30
Dichlorodifluoromethane	131		103		30-146	24		30
Acetone	99		96		54-140	3		30
Carbon disulfide	119		106		59-130	12		30
2-Butanone	107		112		70-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 Batch: WG954357-3 WG954357-4								
Vinyl acetate	112		111		70-130	1		30
4-Methyl-2-pentanone	87		88		70-130	1		30
1,2,3-Trichloropropane	102		107		68-130	5		30
2-Hexanone	82		87		70-130	6		30
Bromochloromethane	121		121		70-130	0		30
2,2-Dichloropropane	125		110		70-130	13		30
1,2-Dibromoethane	103		106		70-130	3		30
1,3-Dichloropropane	109		113		69-130	4		30
1,1,1,2-Tetrachloroethane	111		110		70-130	1		30
Bromobenzene	99		96		70-130	3		30
n-Butylbenzene	109		97		70-130	12		30
sec-Butylbenzene	108		95		70-130	13		30
tert-Butylbenzene	106		96		70-130	10		30
o-Chlorotoluene	103		97		70-130	6		30
p-Chlorotoluene	104		98		70-130	6		30
1,2-Dibromo-3-chloropropane	93		98		68-130	5		30
Hexachlorobutadiene	90		80		67-130	12		30
Isopropylbenzene	108		98		70-130	10		30
p-Isopropyltoluene	106		97		70-130	9		30
Naphthalene	105		108		70-130	3		30
Acrylonitrile	95		98		70-130	3		30



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 Batch: WG954357-3 WG954357-4								
Isopropyl Ether	100		99		66-130	1		30
tert-Butyl Alcohol	93		98		70-130	5		30
n-Propylbenzene	107		99		70-130	8		30
1,2,3-Trichlorobenzene	96		95		70-130	1		30
1,2,4-Trichlorobenzene	98		96		70-130	2		30
1,3,5-Trimethylbenzene	101		95		70-130	6		30
1,2,4-Trimethylbenzene	102		96		70-130	6		30
Methyl Acetate	98		104		51-146	6		30
Ethyl Acetate	100		104		70-130	4		30
Acrolein	74		87		70-130	16		30
Cyclohexane	94		76		59-142	21		30
1,4-Dioxane	105		112		65-136	6		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	112		89		50-139	23		30
p-Diethylbenzene	102		92		70-130	10		30
p-Ethyltoluene	103		95		70-130	8		30
1,2,4,5-Tetramethylbenzene	96		92		70-130	4		30
Tetrahydrofuran	102		106		66-130	4		30
Ethyl ether	120		120		67-130	0		30
trans-1,4-Dichloro-2-butene	87		92		70-130	6		30
Methyl cyclohexane	114		92		70-130	21		30
Ethyl-Tert-Butyl-Ether	99		100		70-130	1		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 Batch: WG954357-3 WG954357-4								
Tertiary-Amyl Methyl Ether	116		119		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		90		70-130
Toluene-d8	87		89		70-130
4-Bromofluorobenzene	95		94		70-130
Dibromofluoromethane	100		99		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 Batch: WG954698-3 WG954698-4								
Methylene chloride	101		101		70-130	0		30
1,1-Dichloroethane	110		107		70-130	3		30
Chloroform	100		99		70-130	1		30
Carbon tetrachloride	100		90		70-130	11		30
1,2-Dichloropropane	108		108		70-130	0		30
Dibromochloromethane	97		100		70-130	3		30
2-Chloroethylvinyl ether	56	Q	59	Q	70-130	5		30
1,1,2-Trichloroethane	101		101		70-130	0		30
Tetrachloroethene	102		95		70-130	7		30
Chlorobenzene	104		103		70-130	1		30
Trichlorofluoromethane	117		105		70-139	11		30
1,2-Dichloroethane	106		109		70-130	3		30
1,1,1-Trichloroethane	102		96		70-130	6		30
Bromodichloromethane	96		98		70-130	2		30
trans-1,3-Dichloropropene	96		98		70-130	2		30
cis-1,3-Dichloropropene	93		93		70-130	0		30
1,1-Dichloropropene	101		94		70-130	7		30
Bromoform	92		92		70-130	0		30
1,1,2,2-Tetrachloroethane	91		95		70-130	4		30
Benzene	100		97		70-130	3		30
Toluene	106		101		70-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 Batch: WG954698-3 WG954698-4								
Ethylbenzene	109		104		70-130	5		30
Chloromethane	123		115		52-130	7		30
Bromomethane	119		116		57-147	3		30
Vinyl chloride	126		114		67-130	10		30
Chloroethane	144		133		50-151	8		30
1,1-Dichloroethene	118		107		65-135	10		30
trans-1,2-Dichloroethene	103		98		70-130	5		30
Trichloroethene	106		102		70-130	4		30
1,2-Dichlorobenzene	105		104		70-130	1		30
1,3-Dichlorobenzene	107		106		70-130	1		30
1,4-Dichlorobenzene	108		106		70-130	2		30
Methyl tert butyl ether	98		101		66-130	3		30
p/m-Xylene	107		103		70-130	4		30
o-Xylene	106		103		70-130	3		30
cis-1,2-Dichloroethene	101		99		70-130	2		30
Dibromomethane	98		100		70-130	2		30
Styrene	107		105		70-130	2		30
Dichlorodifluoromethane	101		86		30-146	16		30
Acetone	102		101		54-140	1		30
Carbon disulfide	100		94		59-130	6		30
2-Butanone	107		100		70-130	7		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET

**Lab Number:** L1637141

**Project Number:** 0092-016-001-005-002

**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 Batch: WG954698-3 WG954698-4								
Vinyl acetate	82		87		70-130	6		30
4-Methyl-2-pentanone	110		115		70-130	4		30
1,2,3-Trichloropropane	101		103		68-130	2		30
2-Hexanone	103		111		70-130	7		30
Bromochloromethane	102		102		70-130	0		30
2,2-Dichloropropane	103		96		70-130	7		30
1,2-Dibromoethane	98		100		70-130	2		30
1,3-Dichloropropane	103		104		69-130	1		30
1,1,1,2-Tetrachloroethane	104		101		70-130	3		30
Bromobenzene	103		101		70-130	2		30
n-Butylbenzene	120		110		70-130	9		30
sec-Butylbenzene	107		98		70-130	9		30
tert-Butylbenzene	105		98		70-130	7		30
o-Chlorotoluene	110		105		70-130	5		30
p-Chlorotoluene	109		106		70-130	3		30
1,2-Dibromo-3-chloropropane	89		95		68-130	7		30
Hexachlorobutadiene	91		83		67-130	9		30
Isopropylbenzene	107		98		70-130	9		30
p-Isopropyltoluene	110		102		70-130	8		30
Naphthalene	96		97		70-130	1		30
Acrylonitrile	110		116		70-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 Batch: WG954698-3 WG954698-4								
Isopropyl Ether	110		112		66-130	2		30
tert-Butyl Alcohol	88		95		70-130	8		30
n-Propylbenzene	111		104		70-130	7		30
1,2,3-Trichlorobenzene	98		98		70-130	0		30
1,2,4-Trichlorobenzene	103		102		70-130	1		30
1,3,5-Trimethylbenzene	105		100		70-130	5		30
1,2,4-Trimethylbenzene	106		103		70-130	3		30
Methyl Acetate	102		108		51-146	6		30
Ethyl Acetate	93		98		70-130	5		30
Acrolein	122		116		70-130	5		30
Cyclohexane	108		96		59-142	12		30
1,4-Dioxane	88		101		65-136	14		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		88		50-139	13		30
p-Diethylbenzene	107		100		70-130	7		30
p-Ethyltoluene	102		97		70-130	5		30
1,2,4,5-Tetramethylbenzene	101		99		70-130	2		30
Tetrahydrofuran	96		112		66-130	15		30
Ethyl ether	115		118		67-130	3		30
trans-1,4-Dichloro-2-butene	84		82		70-130	2		30
Methyl cyclohexane	95		84		70-130	12		30
Ethyl-Tert-Butyl-Ether	105		107		70-130	2		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 Batch: WG954698-3 WG954698-4								
Tertiary-Amyl Methyl Ether	93		94		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		109		70-130
Toluene-d8	106		107		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	100		102		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG954834-3 WG954834-4								
Methylene chloride	90		87		70-130	3		30
1,1-Dichloroethane	92		90		70-130	2		30
Chloroform	97		96		70-130	1		30
Carbon tetrachloride	108		100		70-130	8		30
1,2-Dichloropropane	84		84		70-130	0		30
Dibromochloromethane	96		94		70-130	2		30
2-Chloroethylvinyl ether	74		68	Q	70-130	8		30
1,1,2-Trichloroethane	90		89		70-130	1		30
Tetrachloroethene	110		106		70-130	4		30
Chlorobenzene	93		92		70-130	1		30
Trichlorofluoromethane	119		109		70-139	9		30
1,2-Dichloroethane	108		107		70-130	1		30
1,1,1-Trichloroethane	104		98		70-130	6		30
Bromodichloromethane	96		95		70-130	1		30
trans-1,3-Dichloropropene	100		100		70-130	0		30
cis-1,3-Dichloropropene	91		90		70-130	1		30
1,1-Dichloropropene	97		90		70-130	7		30
Bromoform	100		96		70-130	4		30
1,1,2,2-Tetrachloroethane	79		75		70-130	5		30
Benzene	87		84		70-130	4		30
Toluene	92		89		70-130	3		30



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET

**Lab Number:** L1637141

**Project Number:** 0092-016-001-005-002

**Report Date:** 11/22/16

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG954834-3 WG954834-4								
Ethylbenzene	95		93		70-130	2		30
Chloromethane	96		91		52-130	5		30
Bromomethane	117		108		57-147	8		30
Vinyl chloride	97		88		67-130	10		30
Chloroethane	101		96		50-151	5		30
1,1-Dichloroethene	93		84		65-135	10		30
trans-1,2-Dichloroethene	93		91		70-130	2		30
Trichloroethene	95		92		70-130	3		30
1,2-Dichlorobenzene	85		85		70-130	0		30
1,3-Dichlorobenzene	88		87		70-130	1		30
1,4-Dichlorobenzene	87		85		70-130	2		30
Methyl tert butyl ether	96		94		66-130	2		30
p/m-Xylene	97		95		70-130	2		30
o-Xylene	97		96		70-130	1		30
cis-1,2-Dichloroethene	93		90		70-130	3		30
Dibromomethane	90		87		70-130	3		30
Styrene	95		95		70-130	0		30
Dichlorodifluoromethane	104		93		30-146	11		30
Acetone	94		90		54-140	4		30
Carbon disulfide	79		76		59-130	4		30
2-Butanone	85		79		70-130	7		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG954834-3 WG954834-4								
Vinyl acetate	84		82		70-130	2		30
4-Methyl-2-pentanone	87		82		70-130	6		30
1,2,3-Trichloropropane	86		84		68-130	2		30
2-Hexanone	78		80		70-130	3		30
Bromochloromethane	89		85		70-130	5		30
2,2-Dichloropropane	102		97		70-130	5		30
1,2-Dibromoethane	92		91		70-130	1		30
1,3-Dichloropropane	90		88		69-130	2		30
1,1,1,2-Tetrachloroethane	98		95		70-130	3		30
Bromobenzene	88		87		70-130	1		30
n-Butylbenzene	87		82		70-130	6		30
sec-Butylbenzene	84		79		70-130	6		30
tert-Butylbenzene	89		84		70-130	6		30
o-Chlorotoluene	82		78		70-130	5		30
p-Chlorotoluene	86		84		70-130	2		30
1,2-Dibromo-3-chloropropane	84		83		68-130	1		30
Hexachlorobutadiene	120		113		67-130	6		30
Isopropylbenzene	86		82		70-130	5		30
p-Isopropyltoluene	92		86		70-130	7		30
Naphthalene	75		75		70-130	0		30
Acrylonitrile	90		84		70-130	7		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG954834-3 WG954834-4								
Isopropyl Ether	87		86		66-130	1		30
tert-Butyl Alcohol	92		90		70-130	2		30
n-Propylbenzene	86		82		70-130	5		30
1,2,3-Trichlorobenzene	98		98		70-130	0		30
1,2,4-Trichlorobenzene	100		99		70-130	1		30
1,3,5-Trimethylbenzene	88		85		70-130	3		30
1,2,4-Trimethylbenzene	88		85		70-130	3		30
Methyl Acetate	82		78		51-146	5		30
Ethyl Acetate	86		76		70-130	12		30
Acrolein	79		70		70-130	12		30
Cyclohexane	91		80		59-142	13		30
1,4-Dioxane	82		80		65-136	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	90		79		50-139	13		30
p-Diethylbenzene	89		86		70-130	3		30
p-Ethyltoluene	87		82		70-130	6		30
1,2,4,5-Tetramethylbenzene	91		88		70-130	3		30
Tetrahydrofuran	83		80		66-130	4		30
Ethyl ether	94		94		67-130	0		30
trans-1,4-Dichloro-2-butene	95		91		70-130	4		30
Methyl cyclohexane	86		77		70-130	11		30
Ethyl-Tert-Butyl-Ether	94		93		70-130	1		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG954834-3 WG954834-4								
Tertiary-Amyl Methyl Ether	90		91		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117		117		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	99		98		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG954851-3 WG954851-4								
Methylene chloride	115		107		70-130	7		30
1,1-Dichloroethane	109		100		70-130	9		30
Chloroform	110		103		70-130	7		30
Carbon tetrachloride	102		83		70-130	21		30
1,2-Dichloropropane	104		100		70-130	4		30
Dibromochloromethane	104		100		70-130	4		30
2-Chloroethylvinyl ether	73		72		70-130	1		30
1,1,2-Trichloroethane	116		112		70-130	4		30
Tetrachloroethene	80		70		70-130	13		30
Chlorobenzene	105		98		70-130	7		30
Trichlorofluoromethane	126		106		70-139	17		30
1,2-Dichloroethane	108		104		70-130	4		30
1,1,1-Trichloroethane	108		94		70-130	14		30
Bromodichloromethane	102		98		70-130	4		30
trans-1,3-Dichloropropene	100		96		70-130	4		30
cis-1,3-Dichloropropene	97		93		70-130	4		30
1,1-Dichloropropene	91		78		70-130	15		30
Bromoform	91		91		70-130	0		30
1,1,2,2-Tetrachloroethane	124		125		70-130	1		30
Benzene	104		97		70-130	7		30
Toluene	105		95		70-130	10		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG954851-3 WG954851-4								
Ethylbenzene	103		93		70-130	10		30
Chloromethane	116		99		52-130	16		30
Bromomethane	117		104		57-147	12		30
Vinyl chloride	105		87		67-130	19		30
Chloroethane	116		98		50-151	17		30
1,1-Dichloroethene	100		84		65-135	17		30
trans-1,2-Dichloroethene	104		94		70-130	10		30
Trichloroethene	107		96		70-130	11		30
1,2-Dichlorobenzene	106		101		70-130	5		30
1,3-Dichlorobenzene	107		102		70-130	5		30
1,4-Dichlorobenzene	104		98		70-130	6		30
Methyl tert butyl ether	101		100		66-130	1		30
p/m-Xylene	101		93		70-130	8		30
o-Xylene	98		91		70-130	7		30
cis-1,2-Dichloroethene	103		94		70-130	9		30
Dibromomethane	110		104		70-130	6		30
Styrene	100		91		70-130	9		30
Dichlorodifluoromethane	93		73		30-146	24		30
Acetone	109		97		54-140	12		30
Carbon disulfide	99		88		59-130	12		30
2-Butanone	109		107		70-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG954851-3 WG954851-4								
Vinyl acetate	96		92		70-130	4		30
4-Methyl-2-pentanone	75		75		70-130	0		30
1,2,3-Trichloropropane	123		122		68-130	1		30
2-Hexanone	78		73		70-130	7		30
Bromochloromethane	117		107		70-130	9		30
2,2-Dichloropropane	103		92		70-130	11		30
1,2-Dibromoethane	101		98		70-130	3		30
1,3-Dichloropropane	105		103		69-130	2		30
1,1,1,2-Tetrachloroethane	108		100		70-130	8		30
Bromobenzene	96		94		70-130	2		30
n-Butylbenzene	114		103		70-130	10		30
sec-Butylbenzene	107		94		70-130	13		30
tert-Butylbenzene	100		91		70-130	9		30
o-Chlorotoluene	116		109		70-130	6		30
p-Chlorotoluene	116		108		70-130	7		30
1,2-Dibromo-3-chloropropane	87		95		68-130	9		30
Hexachlorobutadiene	82		74		67-130	10		30
Isopropylbenzene	100		91		70-130	9		30
p-Isopropyltoluene	103		92		70-130	11		30
Naphthalene	91		93		70-130	2		30
Acrylonitrile	102		101		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG954851-3 WG954851-4								
Isopropyl Ether	90		88		66-130	2		30
tert-Butyl Alcohol	94		95		70-130	1		30
n-Propylbenzene	114		103		70-130	10		30
1,2,3-Trichlorobenzene	82		82		70-130	0		30
1,2,4-Trichlorobenzene	77		76		70-130	1		30
1,3,5-Trimethylbenzene	116		109		70-130	6		30
1,2,4-Trimethylbenzene	111		104		70-130	7		30
Methyl Acetate	97		93		51-146	4		30
Ethyl Acetate	82		85		70-130	4		30
Acrolein	86		82		70-130	5		30
Cyclohexane	83		67		59-142	21		30
1,4-Dioxane	70		71		65-136	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	92		74		50-139	22		30
p-Diethylbenzene	97		90		70-130	7		30
p-Ethyltoluene	111		102		70-130	8		30
1,2,4,5-Tetramethylbenzene	88		85		70-130	3		30
Tetrahydrofuran	98		93		66-130	5		30
Ethyl ether	104		103		67-130	1		30
trans-1,4-Dichloro-2-butene	113		103		70-130	9		30
Methyl cyclohexane	80		64	Q	70-130	22		30
Ethyl-Tert-Butyl-Ether	94		93		70-130	1		30



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG954851-3 WG954851-4								
Tertiary-Amyl Methyl Ether	89		88		70-130	1		30

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	105		102		70-130
Toluene-d8	104		103		70-130
4-Bromofluorobenzene	105		107		70-130
Dibromofluoromethane	110		108		70-130

## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG954357-6 WG954357-7 QC Sample: L1637141-06 Client ID: RISB-28 (4-6)												
Methylene chloride	ND	836	950	114		1400	171	Q	70-130	40	Q	30
1,1-Dichloroethane	43.J	836	820	98		1400	165	Q	70-130	51	Q	30
Chloroform	ND	836	960	115		1500	181	Q	70-130	45	Q	30
Carbon tetrachloride	ND	836	660	79		1400	165	Q	70-130	71	Q	30
1,2-Dichloropropane	ND	836	900	108		1300	159	Q	70-130	38	Q	30
Dibromochloromethane	ND	836	940	112		1300	160	Q	70-130	35	Q	30
2-Chloroethylvinyl ether	ND	836	1100	128		1500	177	Q	70-130	32	Q	30
1,1,2-Trichloroethane	ND	836	950	113		1300	156	Q	70-130	31	Q	30
Tetrachloroethene	ND	836	620	75		1100	136	Q	70-130	59	Q	30
Chlorobenzene	ND	836	840	101		1300	153	Q	70-130	41	Q	30
Trichlorofluoromethane	ND	836	610	73		1400	170	Q	70-139	80	Q	30
1,2-Dichloroethane	ND	836	1000	123		1400	171	Q	70-130	33	Q	30
1,1,1-Trichloroethane	ND	836	770	92		1500	176	Q	70-130	63	Q	30
Bromodichloromethane	ND	836	1000	123		1500	184	Q	70-130	40	Q	30
trans-1,3-Dichloropropene	ND	836	950	114		1300	160	Q	70-130	34	Q	30
cis-1,3-Dichloropropene	ND	836	1000	124		1600	185	Q	70-130	39	Q	30
1,1-Dichloropropene	ND	836	740	88		1500	176	Q	70-130	67	Q	30
Bromoform	ND	836	830	100		1100	133	Q	70-130	29		30
1,1,2,2-Tetrachloroethane	ND	836	1000	121		1400	161	Q	70-130	29		30
Benzene	ND	836	880	106		1500	173	Q	70-130	49	Q	30
Toluene	ND	836	780	93		1300	150	Q	70-130	47	Q	30

## Matrix Spike Analysis

### Batch Quality Control

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG954357-6 WG954357-7 QC Sample: L1637141-06 Client ID: RISB-28 (4-6)												
Ethylbenzene	ND	836	760	91		1300	151	Q	70-130	50	Q	30
Chloromethane	ND	836	760	91		1400	172	Q	52-130	62	Q	30
Bromomethane	ND	836	860	103		1400	171	Q	57-147	49	Q	30
Vinyl chloride	ND	836	690	82		1500	181	Q	67-130	75	Q	30
Chloroethane	ND	836	1200	141		2200	257	Q	50-151	58	Q	30
1,1-Dichloroethene	ND	836	630	75		1300	158	Q	65-135	71	Q	30
trans-1,2-Dichloroethene	21.J	836	820	98		1400	171	Q	70-130	54	Q	30
Trichloroethene	5400	836	6000	71		6500	132	Q	70-130	8		30
1,2-Dichlorobenzene	ND	836	890	107		1300	153	Q	70-130	36	Q	30
1,3-Dichlorobenzene	ND	836	840	101		1200	148	Q	70-130	38	Q	30
1,4-Dichlorobenzene	ND	836	850	102		1300	150	Q	70-130	38	Q	30
Methyl tert butyl ether	ND	836	1100	132	Q	1500	182	Q	66-130	32	Q	30
p/m-Xylene	ND	1670	1500	90		2500	151	Q	70-130	50	Q	30
o-Xylene	ND	1670	1600	98		2600	154	Q	70-130	44	Q	30
cis-1,2-Dichloroethene	580	836	1500	112		2100	177	Q	70-130	30		30
Dibromomethane	ND	836	1100	128		1500	176	Q	70-130	31	Q	30
Styrene	ND	1670	1700	103		2600	155	Q	70-130	40	Q	30
Dichlorodifluoromethane	ND	836	620	74		1600	188	Q	30-146	87	Q	30
Acetone	ND	836	1000	120		1400	165	Q	54-140	32	Q	30
Carbon disulfide	ND	836	660	78		1300	157	Q	59-130	67	Q	30
2-Butanone	ND	836	1100	132	Q	1500	182	Q	70-130	32	Q	30

## Matrix Spike Analysis

### Batch Quality Control

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG954357-6 WG954357-7 QC Sample: L1637141-06 Client ID: RISB-28 (4-6)												
Vinyl acetate	ND	836	1000	123		1500	178	Q	70-130	37	Q	30
4-Methyl-2-pentanone	ND	836	830	100		1100	135	Q	70-130	30		30
1,2,3-Trichloropropane	ND	836	990	118		1300	157	Q	68-130	28		30
2-Hexanone	ND	836	860	103		1200	138	Q	70-130	29		30
Bromochloromethane	ND	836	1000	124		1500	181	Q	70-130	37	Q	30
2,2-Dichloropropane	ND	836	800	95		1500	178	Q	70-130	60	Q	30
1,2-Dibromoethane	ND	836	970	116		1300	159	Q	70-130	31	Q	30
1,3-Dichloropropane	ND	836	1000	123		1400	171	Q	69-130	33	Q	30
1,1,1,2-Tetrachloroethane	ND	836	940	112		1400	169	Q	70-130	40	Q	30
Bromobenzene	ND	836	800	96		1200	141	Q	70-130	38	Q	30
n-Butylbenzene	ND	836	710	85		1200	148	Q	70-130	54	Q	30
sec-Butylbenzene	ND	836	690	82		1200	148	Q	70-130	57	Q	30
tert-Butylbenzene	ND	836	700	83		1200	146	Q	70-130	55	Q	30
o-Chlorotoluene	ND	836	780	93		1200	145	Q	70-130	44	Q	30
p-Chlorotoluene	ND	836	790	95		1200	145	Q	70-130	42	Q	30
1,2-Dibromo-3-chloropropane	ND	836	930	111		1200	146	Q	68-130	27		30
Hexachlorobutadiene	ND	836	600	72		1100	127		67-130	55	Q	30
Isopropylbenzene	ND	836	700	84		1200	145	Q	70-130	53	Q	30
p-Isopropyltoluene	ND	836	720	86		1200	147	Q	70-130	53	Q	30
Naphthalene	ND	836	1000	120		1400	164	Q	70-130	31	Q	30
Acrylonitrile	ND	836	980	117		1300	154	Q	70-130	27		30

## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG954357-6 WG954357-7 QC Sample: L1637141-06 Client ID: RISB-28 (4-6)												
Isopropyl Ether	ND	836	880	106		1300	153	Q	66-130	37	Q	30
tert-Butyl Alcohol	ND	4180	5100	122		6600	157	Q	70-130	25		30
n-Propylbenzene	ND	836	720	86		1200	148	Q	70-130	53	Q	30
1,2,3-Trichlorobenzene	ND	836	860	102		1200	142	Q	70-130	33	Q	30
1,2,4-Trichlorobenzene	ND	836	850	102		1200	142	Q	70-130	33	Q	30
1,3,5-Trimethylbenzene	ND	836	720	87		1200	141	Q	70-130	48	Q	30
1,2,4-Trimethylbenzene	ND	836	760	91		1200	142	Q	70-130	44	Q	30
Methyl Acetate	ND	836	1000	122		1400	163	Q	51-146	29		30
Ethyl Acetate	ND	836	1000	122		1400	166	Q	70-130	31	Q	30
Acrolein	ND	836	710J	85		960J	114		70-130	29		30
Cyclohexane	ND	836	500J	59		1200	140		59-142	81	Q	30
1,4-Dioxane	ND	41800	63000	151	Q	92000	221	Q	65-136	38	Q	30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	836	550J	65		1300	154	Q	50-139	81	Q	30
p-Diethylbenzene	ND	836	710	85		1200	142	Q	70-130	50	Q	30
p-Ethyltoluene	ND	836	720	86		1200	142	Q	70-130	49	Q	30
1,2,4,5-Tetramethylbenzene	ND	836	770	92		1200	140	Q	70-130	42	Q	30
Tetrahydrofuran	ND	836	1100	129		1500	176	Q	66-130	31	Q	30
Ethyl ether	ND	836	1000	123		1500	175	Q	67-130	35	Q	30
trans-1,4-Dichloro-2-butene	ND	836	850	101		1100	135	Q	70-130	29		30
Methyl cyclohexane	52.J	836	630	76		1500	176	Q	70-130	80	Q	30
Ethyl-Tert-Butyl-Ether	ND	836	920	110		1300	156	Q	70-130	34	Q	30

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG954357-6 WG954357-7 QC Sample: L1637141-06 Client ID: RISB-28 (4-6)												
Tertiary-Amyl Methyl Ether	ND	836	1100	133	Q	1600	187	Q	70-130	34	Q	30

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>	
1,2-Dichloroethane-d4	96		95		70-130
4-Bromofluorobenzene	93		92		70-130
Dibromofluoromethane	99		101		70-130
Toluene-d8	88		87		70-130

# **INORGANICS & MISCELLANEOUS**

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-01  
**Client ID:** RISB-32 (7-8)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 13:14  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.1		%	0.100	NA	1	-	11/16/16 11:25	121,2540G	RI





**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-02  
**Client ID:** RISB-27 (11-12)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 10:26  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.0		%	0.100	NA	1	-	11/16/16 11:25	121,2540G	RI



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-04  
**Client ID:** RISB-27 (7-8)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 10:07  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.0		%	0.100	NA	1	-	11/16/16 11:25	121,2540G	RI



Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

**SAMPLE RESULTS**

Lab ID: L1637141-05

Date Collected: 11/15/16 12:00

Client ID: BLIND DUP #1

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	11/16/16 11:25	121,2540G	RI



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-06  
**Client ID:** RISB-28 (4-6)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 11:10  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	11/16/16 11:25	121,2540G	RI



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-07  
**Client ID:** RISB-35 (5-7)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 14:37  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.7		%	0.100	NA	1	-	11/16/16 11:25	121,2540G	RI



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-08  
**Client ID:** S-14  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 14:48  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	57.2		%	0.100	NA	1	-	11/16/16 14:03	121,2540G	RI



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-09  
**Client ID:** S-12  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 14:46  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.5		%	0.100	NA	1	-	11/16/16 14:03	121,2540G	RI



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-10  
**Client ID:** S-15  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 14:52  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	52.0		%	0.100	NA	1	-	11/16/16 14:03	121,2540G	RI





## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-07 QC Batch ID: WG952844-1 QC Sample: L1637141-06 Client ID: RISB-28 (4-6)						
Solids, Total	88.0	86.9	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 08-10 QC Batch ID: WG952926-1 QC Sample: L1637058-06 Client ID: DUP Sample						
Solids, Total	83.8	83.3	%	1		20

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 11/16/2016 13:35

## Cooler Information Custody Seal

## Cooler

A Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1637141-01A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2),NYTCL-8260H(14)
L1637141-01B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2),NYTCL-8260H(14)
L1637141-01C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2),NYTCL-8260H(14)
L1637141-01D	Plastic 120ml unpreserved	A	N/A	2.9	Y	Absent	TS(7)
L1637141-01X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1637141-01Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1637141-01Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1637141-02A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-02B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-02C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-02D	Plastic 120ml unpreserved	A	N/A	2.9	Y	Absent	TS(7)
L1637141-02X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-02Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-02Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-03A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	HOLD-8260HLW(2)
L1637141-03B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	HOLD-8260HLW(2)
L1637141-03C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	HOLD-8260HLW(2)
L1637141-03D	Plastic 2oz unpreserved for TS	A	N/A	2.9	Y	Absent	HOLD-WETCHEM()
L1637141-03X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	HOLD-8260HLW(14)
L1637141-03Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	HOLD-8260HLW(14)
L1637141-03Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	HOLD-8260HLW(14)
L1637141-04A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-04B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-04C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days



Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1637141-04D	Plastic 2oz unpreserved for TS	A	N/A	2.9	Y	Absent	TS(7)
L1637141-04X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-04Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-04Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-05A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-05B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-05C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-05D	Plastic 2oz unpreserved for TS	A	N/A	2.9	Y	Absent	TS(7)
L1637141-05X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-05Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-05Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06A1	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06A2	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06B1	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06B2	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06C1	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06C2	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06D	Plastic 120ml unpreserved	A	N/A	2.9	Y	Absent	TS(7)
L1637141-06D1	Plastic 120ml unpreserved	A	N/A	2.9	Y	Absent	TS(7)
L1637141-06D2	Plastic 120ml unpreserved	A	N/A	2.9	Y	Absent	TS(7)
L1637141-06X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06X1	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06X2	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06Y1	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06Y2	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06Z1	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06Z2	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-07A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-07B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-07C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-07D	Plastic 120ml unpreserved	A	N/A	2.9	Y	Absent	TS(7)

\*Values in parentheses indicate holding time in days



**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Analysis(*)</b>
L1637141-07X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-07Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-07Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-08A	Glass 250ml/8oz unpreserved	A	N/A	2.9	Y	Absent	TS(7),NYTCL-8260(14)
L1637141-09A	Glass 250ml/8oz unpreserved	A	N/A	2.9	Y	Absent	TS(7),NYTCL-8260(14)
L1637141-10A	Glass 250ml/8oz unpreserved	A	N/A	2.9	Y	Absent	TS(7),NYTCL-8260(14)

\*Values in parentheses indicate holding time in days

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

#### Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
  - D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
  - E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
  - G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
  - H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
  - I** - The lower value for the two columns has been reported due to obvious interference.
  - M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
  - NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
  - P** - The RPD between the results for the two columns exceeds the method-specified criteria.
  - Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
  - R** - Analytical results are from sample re-analysis.
  - RE** - Analytical results are from sample re-extraction.
  - S** - Analytical results are from modified screening analysis.
  - J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
  - ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

## REFERENCES

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

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

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

### Westborough Facility

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

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

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

**EPA 300:** DW: Bromide

**EPA 6860:** NPW and SCM: Perchlorate

**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation

**EPA 9012B:** NPW: Total Cyanide

**EPA 9050A:** NPW: Specific Conductance

**SM3500:** NPW: Ferrous Iron

**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**SM5310C:** DW: Dissolved Organic Carbon

### Mansfield Facility

**SM 2540D:** TSS

**EPA 3005A** NPW

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

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** **EPA 3050B**

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

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

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

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

### Mansfield Facility:

#### Drinking Water

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

#### Non-Potable Water

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

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

**EPA 245.1 Hg.**

**SM2340B**

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





# CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

### Project Information

Project Name: Tri Co  
Project Location: Buffalo NY  
Project #: 0092-016-001-601  
Project Manager: Chris Baron  
ALPHA Quote #:

Date Rec'd in Lab: 11/16/16

ALPHA Job #: L1637191

### Report Information - Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

### Billing Information

Same as Client info PO #:

### Client Information

Client: Berkshire Egg  
Address: 2558 Hankin Turnpike  
Lancaster NY 14218  
Phone: (716) 856-0599  
Fax:

Email: BBaron@TurkeyEgg.com

These samples have been previously analyzed by Alpha

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved!)

Date Due: Time:

Other Project Specific Requirements/Comments/Detection Limits:

CAT B.

### Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS  
 TCL+CP-51 vac 5260  
 Total solids  
 TCL+CP-51 vac 5260

### SAMPLE HANDLING

Filtration \_\_\_\_\_  
 Done  
 Not needed  
 Lab to do  
 Preservation  
 Lab to do  
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS		Sample Specific Comments
		Date	Time			TCL+CP-51 vac 5260	Total solids	
37191-01	RISB-32 (7-8)	11/15/16	1314	Soil	TAB	3	1	
02	RISB-27(11-12)		1026			3	1	
03	RISB-26(3-4)		945			3	1	Hold
04	RISB-27(7-8)		1007			3	1	
05	Blin & Dup #1		1200			3	1	
06	RISB-28 (4-6) <sup>ms/msd</sup>		1110			9	3	
07	RISB-35 (5-7)		1437			3	1	
08	S-14		1448	sed			1	
09	S-12		1446				1	
10	S-15		1452				1	

Container Type E P A

Preservative A A A

Relinquished By:

Date/Time

Received By:

Date/Time

[Signature]  
[Signature]

11/15/16 17:00  
11/15/16 17:12

[Signature]  
[Signature]

11/16/16 17:12  
11/16/16 01:10

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



## ANALYTICAL REPORT

Lab Number:	L1637141
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	791 WASHINGTON STREET
Project Number:	0092-016-001-005-002
Report Date:	11/22/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

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



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1637141-01	RISB-32 (7-8)	SOIL	BUFFALO, NY	11/15/16 13:14	11/15/16
L1637141-02	RISB-27 (11-12)	SOIL	BUFFALO, NY	11/15/16 10:26	11/15/16
L1637141-03	RISB-26 (3-4)	SOIL	BUFFALO, NY	11/15/16 09:45	11/15/16
L1637141-04	RISB-27 (7-8)	SOIL	BUFFALO, NY	11/15/16 10:07	11/15/16
L1637141-05	BLIND DUP #1	SOIL	BUFFALO, NY	11/15/16 12:00	11/15/16
L1637141-06	RISB-28 (4-6)	SOIL	BUFFALO, NY	11/15/16 11:10	11/15/16
L1637141-07	RISB-35 (5-7)	SOIL	BUFFALO, NY	11/15/16 14:37	11/15/16
L1637141-08	S-14	SOIL	BUFFALO, NY	11/15/16 14:48	11/15/16
L1637141-09	S-12	SOIL	BUFFALO, NY	11/15/16 14:46	11/15/16
L1637141-10	S-15	SOIL	BUFFALO, NY	11/15/16 14:52	11/15/16

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

### Case Narrative (continued)

#### Report Submission

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

#### Volatile Organics

L1637141-08, -09 and -10: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

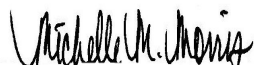
L1637141-01 was analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported.

L1637141-10: The internal standard (IS) response(s) for 1,4-dichlorobenzene-d4 (40%) and the surrogate recovery for 4-bromofluorobenzene (165%) were outside the acceptance criteria; however, re-analysis achieved similar results: 1,4-dichlorobenzene-d4 (38%) and 4-bromofluorobenzene (155%). The results of both analyses are reported

The WG954335-10 Method Blank, associated with L1637141-01, has a concentration above the reporting limit for bromomethane. Since the sample was non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 11/22/16

# ORGANICS

# VOLATILES

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-01  
**Client ID:** RISB-32 (7-8)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/21/16 09:33  
**Analyst:** JC  
**Percent Solids:** 86%

**Date Collected:** 11/15/16 13:14  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	1.0	J	ug/kg	8.4	0.93	1
1,1-Dichloroethane	2.3		ug/kg	1.3	0.07	1
Chloroform	ND		ug/kg	1.3	0.31	1
Carbon tetrachloride	ND		ug/kg	0.84	0.18	1
1,2-Dichloropropane	ND		ug/kg	2.9	0.19	1
Dibromochloromethane	ND		ug/kg	0.84	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.26	1
Tetrachloroethene	ND		ug/kg	0.84	0.12	1
Chlorobenzene	ND		ug/kg	0.84	0.29	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.33	1
1,2-Dichloroethane	ND		ug/kg	0.84	0.10	1
1,1,1-Trichloroethane	ND		ug/kg	0.84	0.09	1
Bromodichloromethane	ND		ug/kg	0.84	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	0.84	0.10	1
cis-1,3-Dichloropropene	ND		ug/kg	0.84	0.10	1
Bromoform	ND		ug/kg	3.4	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.84	0.09	1
Benzene	ND		ug/kg	0.84	0.10	1
Toluene	ND		ug/kg	1.3	0.16	1
Ethylbenzene	ND		ug/kg	0.84	0.11	1
Chloromethane	ND		ug/kg	4.2	0.25	1
Bromomethane	ND		ug/kg	1.7	0.28	1
Vinyl chloride	ND		ug/kg	1.7	0.10	1
Chloroethane	ND		ug/kg	1.7	0.26	1
1,1-Dichloroethene	1.6		ug/kg	0.84	0.22	1
trans-1,2-Dichloroethene	310	E	ug/kg	1.3	0.18	1
Trichloroethene	24		ug/kg	0.84	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.11	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.12	1



Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-01  
 Client ID: RISB-32 (7-8)  
 Sample Location: BUFFALO, NY

Date Collected: 11/15/16 13:14  
 Date Received: 11/15/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.7	0.07	1
p/m-Xylene	ND		ug/kg	1.7	0.30	1
o-Xylene	ND		ug/kg	1.7	0.28	1
cis-1,2-Dichloroethene	170		ug/kg	0.84	0.12	1
Styrene	ND		ug/kg	1.7	0.34	1
Dichlorodifluoromethane	ND		ug/kg	8.4	0.16	1
Acetone	9.1		ug/kg	8.4	0.87	1
Carbon disulfide	ND		ug/kg	8.4	0.93	1
2-Butanone	ND		ug/kg	8.4	0.23	1
4-Methyl-2-pentanone	ND		ug/kg	8.4	0.20	1
2-Hexanone	ND		ug/kg	8.4	0.56	1
Bromochloromethane	ND		ug/kg	4.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	3.4	0.15	1
n-Butylbenzene	ND		ug/kg	0.84	0.10	1
sec-Butylbenzene	ND		ug/kg	0.84	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	0.33	1
Isopropylbenzene	ND		ug/kg	0.84	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.84	0.10	1
n-Propylbenzene	ND		ug/kg	0.84	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.2	0.12	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.2	0.15	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	0.12	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	0.12	1
Methyl Acetate	ND		ug/kg	17	0.23	1
Cyclohexane	ND		ug/kg	17	0.12	1
1,4-Dioxane	ND		ug/kg	84	12.	1
Freon-113	ND		ug/kg	17	0.23	1
Methyl cyclohexane	ND		ug/kg	3.4	0.13	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-01  
**Client ID:** RISB-32 (7-8)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/22/16 09:37  
**Analyst:** BN  
**Percent Solids:** 86%

**Date Collected:** 11/15/16 13:14  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	89	J	ug/kg	580	64.	1
1,1-Dichloroethane	ND		ug/kg	87	5.0	1
Chloroform	ND		ug/kg	87	22.	1
Carbon tetrachloride	ND		ug/kg	58	12.	1
1,2-Dichloropropane	ND		ug/kg	200	13.	1
Dibromochloromethane	ND		ug/kg	58	8.9	1
1,1,2-Trichloroethane	ND		ug/kg	87	18.	1
Tetrachloroethene	ND		ug/kg	58	8.2	1
Chlorobenzene	ND		ug/kg	58	20.	1
Trichlorofluoromethane	ND		ug/kg	290	22.	1
1,2-Dichloroethane	ND		ug/kg	58	6.6	1
1,1,1-Trichloroethane	ND		ug/kg	58	6.4	1
Bromodichloromethane	ND		ug/kg	58	10.	1
trans-1,3-Dichloropropene	ND		ug/kg	58	7.0	1
cis-1,3-Dichloropropene	ND		ug/kg	58	6.8	1
Bromoform	ND		ug/kg	230	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	58	5.8	1
Benzene	ND		ug/kg	58	6.8	1
Toluene	ND		ug/kg	87	11.	1
Ethylbenzene	ND		ug/kg	58	7.4	1
Chloromethane	ND		ug/kg	290	17.	1
Bromomethane	ND		ug/kg	120	20.	1
Vinyl chloride	ND		ug/kg	120	6.8	1
Chloroethane	ND		ug/kg	120	18.	1
1,1-Dichloroethene	ND		ug/kg	58	15.	1
trans-1,2-Dichloroethene	590		ug/kg	87	12.	1
Trichloroethene	180		ug/kg	58	7.3	1
1,2-Dichlorobenzene	ND		ug/kg	290	8.9	1
1,3-Dichlorobenzene	ND		ug/kg	290	7.8	1
1,4-Dichlorobenzene	ND		ug/kg	290	8.0	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-01  
 Client ID: RISB-32 (7-8)  
 Sample Location: BUFFALO, NY

Date Collected: 11/15/16 13:14  
 Date Received: 11/15/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	120	4.9	1
p/m-Xylene	ND		ug/kg	120	20.	1
o-Xylene	ND		ug/kg	120	20.	1
cis-1,2-Dichloroethene	340		ug/kg	58	8.3	1
Styrene	ND		ug/kg	120	23.	1
Dichlorodifluoromethane	ND		ug/kg	580	11.	1
Acetone	ND		ug/kg	580	60.	1
Carbon disulfide	ND		ug/kg	580	64.	1
2-Butanone	ND		ug/kg	580	16.	1
4-Methyl-2-pentanone	ND		ug/kg	580	14.	1
2-Hexanone	ND		ug/kg	580	39.	1
Bromochloromethane	ND		ug/kg	290	16.	1
1,2-Dibromoethane	ND		ug/kg	230	10.	1
n-Butylbenzene	ND		ug/kg	58	6.7	1
sec-Butylbenzene	ND		ug/kg	58	7.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	290	23.	1
Isopropylbenzene	ND		ug/kg	58	6.0	1
p-Isopropyltoluene	ND		ug/kg	58	7.3	1
n-Propylbenzene	ND		ug/kg	58	6.3	1
1,2,3-Trichlorobenzene	ND		ug/kg	290	8.6	1
1,2,4-Trichlorobenzene	ND		ug/kg	290	10.	1
1,3,5-Trimethylbenzene	ND		ug/kg	290	8.3	1
1,2,4-Trimethylbenzene	ND		ug/kg	290	8.2	1
Methyl Acetate	ND		ug/kg	1200	16.	1
Cyclohexane	ND		ug/kg	1200	8.5	1
1,4-Dioxane	ND		ug/kg	5800	840	1
Freon-113	ND		ug/kg	1200	16.	1
Methyl cyclohexane	ND		ug/kg	230	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	112		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-02  
**Client ID:** RISB-27 (11-12)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/20/16 13:32  
**Analyst:** BN  
**Percent Solids:** 78%

**Date Collected:** 11/15/16 10:26  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	850	94.	1
1,1-Dichloroethane	26	J	ug/kg	130	7.3	1
Chloroform	ND		ug/kg	130	32.	1
Carbon tetrachloride	ND		ug/kg	85	18.	1
1,2-Dichloropropane	ND		ug/kg	300	19.	1
Dibromochloromethane	ND		ug/kg	85	13.	1
1,1,2-Trichloroethane	ND		ug/kg	130	26.	1
Tetrachloroethene	ND		ug/kg	85	12.	1
Chlorobenzene	ND		ug/kg	85	30.	1
Trichlorofluoromethane	ND		ug/kg	430	33.	1
1,2-Dichloroethane	ND		ug/kg	85	9.7	1
1,1,1-Trichloroethane	ND		ug/kg	85	9.4	1
Bromodichloromethane	ND		ug/kg	85	15.	1
trans-1,3-Dichloropropene	ND		ug/kg	85	10.	1
cis-1,3-Dichloropropene	ND		ug/kg	85	10.	1
Bromoform	ND		ug/kg	340	20.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	85	8.6	1
Benzene	ND		ug/kg	85	10.	1
Toluene	ND		ug/kg	130	17.	1
Ethylbenzene	ND		ug/kg	85	11.	1
Chloromethane	ND		ug/kg	430	25.	1
Bromomethane	ND		ug/kg	170	29.	1
Vinyl chloride	ND		ug/kg	170	10.	1
Chloroethane	ND		ug/kg	170	27.	1
1,1-Dichloroethene	ND		ug/kg	85	22.	1
trans-1,2-Dichloroethene	180		ug/kg	130	18.	1
Trichloroethene	2800		ug/kg	85	11.	1
1,2-Dichlorobenzene	ND		ug/kg	430	13.	1
1,3-Dichlorobenzene	ND		ug/kg	430	12.	1
1,4-Dichlorobenzene	ND		ug/kg	430	12.	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-02  
 Client ID: RISB-27 (11-12)  
 Sample Location: BUFFALO, NY

Date Collected: 11/15/16 10:26  
 Date Received: 11/15/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	170	7.2	1
p/m-Xylene	ND		ug/kg	170	30.	1
o-Xylene	ND		ug/kg	170	29.	1
cis-1,2-Dichloroethene	850		ug/kg	85	12.	1
Styrene	ND		ug/kg	170	34.	1
Dichlorodifluoromethane	ND		ug/kg	850	16.	1
Acetone	ND		ug/kg	850	88.	1
Carbon disulfide	ND		ug/kg	850	94.	1
2-Butanone	ND		ug/kg	850	23.	1
4-Methyl-2-pentanone	ND		ug/kg	850	21.	1
2-Hexanone	ND		ug/kg	850	57.	1
Bromochloromethane	ND		ug/kg	430	24.	1
1,2-Dibromoethane	ND		ug/kg	340	15.	1
n-Butylbenzene	ND		ug/kg	85	9.8	1
sec-Butylbenzene	ND		ug/kg	85	10.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	430	34.	1
Isopropylbenzene	ND		ug/kg	85	8.8	1
p-Isopropyltoluene	ND		ug/kg	85	11.	1
n-Propylbenzene	ND		ug/kg	85	9.3	1
1,2,3-Trichlorobenzene	ND		ug/kg	430	12.	1
1,2,4-Trichlorobenzene	ND		ug/kg	430	16.	1
1,3,5-Trimethylbenzene	ND		ug/kg	430	12.	1
1,2,4-Trimethylbenzene	ND		ug/kg	430	12.	1
Methyl Acetate	ND		ug/kg	1700	23.	1
Cyclohexane	ND		ug/kg	1700	12.	1
1,4-Dioxane	ND		ug/kg	8500	1200	1
Freon-113	ND		ug/kg	1700	23.	1
Methyl cyclohexane	18	J	ug/kg	340	13.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	96		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-04  
**Client ID:** RISB-27 (7-8)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/20/16 13:58  
**Analyst:** BN  
**Percent Solids:** 84%

**Date Collected:** 11/15/16 10:07  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	550	60.	1
1,1-Dichloroethane	ND		ug/kg	82	4.7	1
Chloroform	ND		ug/kg	82	20.	1
Carbon tetrachloride	ND		ug/kg	55	11.	1
1,2-Dichloropropane	ND		ug/kg	190	12.	1
Dibromochloromethane	ND		ug/kg	55	8.4	1
1,1,2-Trichloroethane	ND		ug/kg	82	17.	1
Tetrachloroethene	ND		ug/kg	55	7.6	1
Chlorobenzene	ND		ug/kg	55	19.	1
Trichlorofluoromethane	ND		ug/kg	270	21.	1
1,2-Dichloroethane	ND		ug/kg	55	6.2	1
1,1,1-Trichloroethane	ND		ug/kg	55	6.0	1
Bromodichloromethane	ND		ug/kg	55	9.4	1
trans-1,3-Dichloropropene	ND		ug/kg	55	6.6	1
cis-1,3-Dichloropropene	ND		ug/kg	55	6.4	1
Bromoform	ND		ug/kg	220	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	55	5.5	1
Benzene	ND		ug/kg	55	6.4	1
Toluene	ND		ug/kg	82	11.	1
Ethylbenzene	ND		ug/kg	55	7.0	1
Chloromethane	ND		ug/kg	270	16.	1
Bromomethane	ND		ug/kg	110	18.	1
Vinyl chloride	ND		ug/kg	110	6.4	1
Chloroethane	ND		ug/kg	110	17.	1
1,1-Dichloroethene	ND		ug/kg	55	14.	1
trans-1,2-Dichloroethene	79	J	ug/kg	82	12.	1
Trichloroethene	1900		ug/kg	55	6.8	1
1,2-Dichlorobenzene	ND		ug/kg	270	8.4	1
1,3-Dichlorobenzene	ND		ug/kg	270	7.4	1
1,4-Dichlorobenzene	ND		ug/kg	270	7.6	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-04

Date Collected: 11/15/16 10:07

Client ID: RISB-27 (7-8)

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	110	4.6	1
p/m-Xylene	ND		ug/kg	110	19.	1
o-Xylene	ND		ug/kg	110	18.	1
cis-1,2-Dichloroethene	340		ug/kg	55	7.8	1
Styrene	ND		ug/kg	110	22.	1
Dichlorodifluoromethane	ND		ug/kg	550	10.	1
Acetone	ND		ug/kg	550	56.	1
Carbon disulfide	ND		ug/kg	550	60.	1
2-Butanone	ND		ug/kg	550	15.	1
4-Methyl-2-pentanone	ND		ug/kg	550	13.	1
2-Hexanone	ND		ug/kg	550	36.	1
Bromochloromethane	ND		ug/kg	270	15.	1
1,2-Dibromoethane	ND		ug/kg	220	9.5	1
n-Butylbenzene	ND		ug/kg	55	6.3	1
sec-Butylbenzene	ND		ug/kg	55	6.7	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	270	22.	1
Isopropylbenzene	ND		ug/kg	55	5.7	1
p-Isopropyltoluene	ND		ug/kg	55	6.8	1
n-Propylbenzene	ND		ug/kg	55	6.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	270	8.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	270	9.9	1
1,3,5-Trimethylbenzene	ND		ug/kg	270	7.8	1
1,2,4-Trimethylbenzene	ND		ug/kg	270	7.7	1
Methyl Acetate	ND		ug/kg	1100	15.	1
Cyclohexane	ND		ug/kg	1100	8.0	1
1,4-Dioxane	ND		ug/kg	5500	790	1
Freon-113	ND		ug/kg	1100	15.	1
Methyl cyclohexane	ND		ug/kg	220	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	96		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

Lab ID: L1637141-05  
 Client ID: BLIND DUP #1  
 Sample Location: BUFFALO, NY  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 11/20/16 14:24  
 Analyst: BN  
 Percent Solids: 82%

Date Collected: 11/15/16 12:00  
 Date Received: 11/15/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	570	62.	1
1,1-Dichloroethane	ND		ug/kg	85	4.8	1
Chloroform	ND		ug/kg	85	21.	1
Carbon tetrachloride	ND		ug/kg	57	12.	1
1,2-Dichloropropane	ND		ug/kg	200	13.	1
Dibromochloromethane	ND		ug/kg	57	8.7	1
1,1,2-Trichloroethane	ND		ug/kg	85	17.	1
Tetrachloroethene	ND		ug/kg	57	7.9	1
Chlorobenzene	ND		ug/kg	57	20.	1
Trichlorofluoromethane	ND		ug/kg	280	22.	1
1,2-Dichloroethane	ND		ug/kg	57	6.4	1
1,1,1-Trichloroethane	ND		ug/kg	57	6.3	1
Bromodichloromethane	ND		ug/kg	57	9.8	1
trans-1,3-Dichloropropene	ND		ug/kg	57	6.8	1
cis-1,3-Dichloropropene	ND		ug/kg	57	6.7	1
Bromoform	ND		ug/kg	230	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	57	5.7	1
Benzene	ND		ug/kg	57	6.7	1
Toluene	ND		ug/kg	85	11.	1
Ethylbenzene	ND		ug/kg	57	7.2	1
Chloromethane	ND		ug/kg	280	17.	1
Bromomethane	ND		ug/kg	110	19.	1
Vinyl chloride	ND		ug/kg	110	6.6	1
Chloroethane	ND		ug/kg	110	18.	1
1,1-Dichloroethene	ND		ug/kg	57	15.	1
trans-1,2-Dichloroethene	130		ug/kg	85	12.	1
Trichloroethene	2500		ug/kg	57	7.1	1
1,2-Dichlorobenzene	ND		ug/kg	280	8.7	1
1,3-Dichlorobenzene	ND		ug/kg	280	7.6	1
1,4-Dichlorobenzene	ND		ug/kg	280	7.8	1



Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-05  
 Client ID: BLIND DUP #1  
 Sample Location: BUFFALO, NY

Date Collected: 11/15/16 12:00  
 Date Received: 11/15/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	110	4.8	1
p/m-Xylene	ND		ug/kg	110	20.	1
o-Xylene	ND		ug/kg	110	19.	1
cis-1,2-Dichloroethene	370		ug/kg	57	8.1	1
Styrene	ND		ug/kg	110	23.	1
Dichlorodifluoromethane	ND		ug/kg	570	11.	1
Acetone	ND		ug/kg	570	59.	1
Carbon disulfide	ND		ug/kg	570	62.	1
2-Butanone	ND		ug/kg	570	15.	1
4-Methyl-2-pentanone	ND		ug/kg	570	14.	1
2-Hexanone	ND		ug/kg	570	38.	1
Bromochloromethane	ND		ug/kg	280	16.	1
1,2-Dibromoethane	ND		ug/kg	230	9.9	1
n-Butylbenzene	ND		ug/kg	57	6.5	1
sec-Butylbenzene	ND		ug/kg	57	6.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	280	22.	1
Isopropylbenzene	ND		ug/kg	57	5.9	1
p-Isopropyltoluene	ND		ug/kg	57	7.1	1
n-Propylbenzene	ND		ug/kg	57	6.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	280	8.4	1
1,2,4-Trichlorobenzene	ND		ug/kg	280	10.	1
1,3,5-Trimethylbenzene	ND		ug/kg	280	8.1	1
1,2,4-Trimethylbenzene	ND		ug/kg	280	8.0	1
Methyl Acetate	ND		ug/kg	1100	15.	1
Cyclohexane	ND		ug/kg	1100	8.3	1
1,4-Dioxane	ND		ug/kg	5700	820	1
Freon-113	ND		ug/kg	1100	16.	1
Methyl cyclohexane	20	J	ug/kg	230	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	95		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-06  
**Client ID:** RISB-28 (4-6)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/20/16 14:49  
**Analyst:** BN  
**Percent Solids:** 88%

**Date Collected:** 11/15/16 11:10  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	480	54.	1
1,1-Dichloroethane	43	J	ug/kg	73	4.2	1
Chloroform	ND		ug/kg	73	18.	1
Carbon tetrachloride	ND		ug/kg	48	10.	1
1,2-Dichloropropane	ND		ug/kg	170	11.	1
Dibromochloromethane	ND		ug/kg	48	7.5	1
1,1,2-Trichloroethane	ND		ug/kg	73	15.	1
Tetrachloroethene	ND		ug/kg	48	6.8	1
Chlorobenzene	ND		ug/kg	48	17.	1
Trichlorofluoromethane	ND		ug/kg	240	19.	1
1,2-Dichloroethane	ND		ug/kg	48	5.5	1
1,1,1-Trichloroethane	ND		ug/kg	48	5.4	1
Bromodichloromethane	ND		ug/kg	48	8.4	1
trans-1,3-Dichloropropene	ND		ug/kg	48	5.9	1
cis-1,3-Dichloropropene	ND		ug/kg	48	5.7	1
Bromoform	ND		ug/kg	190	11.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	48	4.9	1
Benzene	ND		ug/kg	48	5.7	1
Toluene	ND		ug/kg	73	9.5	1
Ethylbenzene	ND		ug/kg	48	6.2	1
Chloromethane	ND		ug/kg	240	14.	1
Bromomethane	ND		ug/kg	97	16.	1
Vinyl chloride	ND		ug/kg	97	5.7	1
Chloroethane	ND		ug/kg	97	15.	1
1,1-Dichloroethene	ND		ug/kg	48	13.	1
trans-1,2-Dichloroethene	21	J	ug/kg	73	10.	1
Trichloroethene	5400		ug/kg	48	6.1	1
1,2-Dichlorobenzene	ND		ug/kg	240	7.4	1
1,3-Dichlorobenzene	ND		ug/kg	240	6.6	1
1,4-Dichlorobenzene	ND		ug/kg	240	6.7	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-06

Date Collected: 11/15/16 11:10

Client ID: RISB-28 (4-6)

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	97	4.1	1
p/m-Xylene	ND		ug/kg	97	17.	1
o-Xylene	ND		ug/kg	97	16.	1
cis-1,2-Dichloroethene	580		ug/kg	48	6.9	1
Styrene	ND		ug/kg	97	20.	1
Dichlorodifluoromethane	ND		ug/kg	480	9.3	1
Acetone	ND		ug/kg	480	50.	1
Carbon disulfide	ND		ug/kg	480	54.	1
2-Butanone	ND		ug/kg	480	13.	1
4-Methyl-2-pentanone	ND		ug/kg	480	12.	1
2-Hexanone	ND		ug/kg	480	32.	1
Bromochloromethane	ND		ug/kg	240	13.	1
1,2-Dibromoethane	ND		ug/kg	190	8.5	1
n-Butylbenzene	ND		ug/kg	48	5.6	1
sec-Butylbenzene	ND		ug/kg	48	5.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	240	19.	1
Isopropylbenzene	ND		ug/kg	48	5.0	1
p-Isopropyltoluene	ND		ug/kg	48	6.1	1
n-Propylbenzene	ND		ug/kg	48	5.3	1
1,2,3-Trichlorobenzene	ND		ug/kg	240	7.2	1
1,2,4-Trichlorobenzene	ND		ug/kg	240	8.8	1
1,3,5-Trimethylbenzene	ND		ug/kg	240	7.0	1
1,2,4-Trimethylbenzene	ND		ug/kg	240	6.9	1
Methyl Acetate	ND		ug/kg	970	13.	1
Cyclohexane	ND		ug/kg	970	7.1	1
1,4-Dioxane	ND		ug/kg	4800	700	1
Freon-113	ND		ug/kg	970	13.	1
Methyl cyclohexane	52	J	ug/kg	190	7.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-07  
**Client ID:** RISB-35 (5-7)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/20/16 18:51  
**Analyst:** JC  
**Percent Solids:** 88%

**Date Collected:** 11/15/16 14:37  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	1.7	J	ug/kg	9.8	1.1	1
1,1-Dichloroethane	75		ug/kg	1.5	0.08	1
Chloroform	ND		ug/kg	1.5	0.36	1
Carbon tetrachloride	ND		ug/kg	0.98	0.21	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.98	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30	1
Tetrachloroethene	ND		ug/kg	0.98	0.14	1
Chlorobenzene	0.79	J	ug/kg	0.98	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.11	1
1,1,1-Trichloroethane	ND		ug/kg	0.98	0.11	1
Bromodichloromethane	ND		ug/kg	0.98	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	0.98	0.12	1
Bromoform	ND		ug/kg	3.9	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.98	0.10	1
Benzene	0.36	J	ug/kg	0.98	0.12	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.98	0.12	1
Chloromethane	ND		ug/kg	4.9	0.29	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.12	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	10		ug/kg	0.98	0.26	1
trans-1,2-Dichloroethene	22		ug/kg	1.5	0.21	1
Trichloroethene	140		ug/kg	0.98	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.14	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-07

Date Collected: 11/15/16 14:37

Client ID: RISB-35 (5-7)

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.0	0.08	1
p/m-Xylene	ND		ug/kg	2.0	0.34	1
o-Xylene	ND		ug/kg	2.0	0.33	1
cis-1,2-Dichloroethene	19		ug/kg	0.98	0.14	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.19	1
Acetone	9.4	J	ug/kg	9.8	1.0	1
Carbon disulfide	ND		ug/kg	9.8	1.1	1
2-Butanone	ND		ug/kg	9.8	0.27	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	0.24	1
2-Hexanone	ND		ug/kg	9.8	0.65	1
Bromochloromethane	ND		ug/kg	4.9	0.27	1
1,2-Dibromoethane	ND		ug/kg	3.9	0.17	1
n-Butylbenzene	ND		ug/kg	0.98	0.11	1
sec-Butylbenzene	ND		ug/kg	0.98	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.39	1
Isopropylbenzene	ND		ug/kg	0.98	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.12	1
n-Propylbenzene	ND		ug/kg	0.98	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.14	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.9	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.9	0.14	1
Methyl Acetate	ND		ug/kg	20	0.26	1
Cyclohexane	1.2	J	ug/kg	20	0.14	1
1,4-Dioxane	ND		ug/kg	98	14.	1
Freon-113	ND		ug/kg	20	0.27	1
Methyl cyclohexane	ND		ug/kg	3.9	0.15	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	101		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-08  
**Client ID:** S-14  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/21/16 10:14  
**Analyst:** JC  
**Percent Solids:** 57%

**Date Collected:** 11/15/16 14:48  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	2.8	J	ug/kg	17	1.9	1
1,1-Dichloroethane	1.2	J	ug/kg	2.6	0.15	1
Chloroform	ND		ug/kg	2.6	0.65	1
Carbon tetrachloride	ND		ug/kg	1.7	0.37	1
1,2-Dichloropropane	ND		ug/kg	6.1	0.40	1
Dibromochloromethane	ND		ug/kg	1.7	0.27	1
1,1,2-Trichloroethane	ND		ug/kg	2.6	0.53	1
Tetrachloroethene	0.87	J	ug/kg	1.7	0.24	1
Chlorobenzene	8.2		ug/kg	1.7	0.61	1
Trichlorofluoromethane	ND		ug/kg	8.7	0.68	1
1,2-Dichloroethane	ND		ug/kg	1.7	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	1.7	0.19	1
Bromodichloromethane	ND		ug/kg	1.7	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	1.7	0.20	1
Bromoform	ND		ug/kg	7.0	0.41	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.7	0.18	1
Benzene	0.72	J	ug/kg	1.7	0.21	1
Toluene	86		ug/kg	2.6	0.34	1
Ethylbenzene	14		ug/kg	1.7	0.22	1
Chloromethane	ND		ug/kg	8.7	0.51	1
Bromomethane	ND		ug/kg	3.5	0.59	1
Vinyl chloride	0.44	J	ug/kg	3.5	0.20	1
Chloroethane	ND		ug/kg	3.5	0.55	1
1,1-Dichloroethene	0.66	J	ug/kg	1.7	0.46	1
trans-1,2-Dichloroethene	2.3	J	ug/kg	2.6	0.37	1
Trichloroethene	160		ug/kg	1.7	0.22	1
1,2-Dichlorobenzene	0.64	J	ug/kg	8.7	0.27	1
1,3-Dichlorobenzene	ND		ug/kg	8.7	0.24	1
1,4-Dichlorobenzene	0.53	J	ug/kg	8.7	0.24	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-08

Date Collected: 11/15/16 14:48

Client ID: S-14

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.5	0.15	1
p/m-Xylene	75		ug/kg	3.5	0.61	1
o-Xylene	23		ug/kg	3.5	0.59	1
cis-1,2-Dichloroethene	14		ug/kg	1.7	0.25	1
Styrene	ND		ug/kg	3.5	0.70	1
Dichlorodifluoromethane	ND		ug/kg	17	0.33	1
Acetone	200		ug/kg	17	1.8	1
Carbon disulfide	ND		ug/kg	17	1.9	1
2-Butanone	45		ug/kg	17	0.48	1
4-Methyl-2-pentanone	2.9	J	ug/kg	17	0.43	1
2-Hexanone	ND		ug/kg	17	1.2	1
Bromochloromethane	ND		ug/kg	8.7	0.48	1
1,2-Dibromoethane	ND		ug/kg	7.0	0.30	1
n-Butylbenzene	1.0	J	ug/kg	1.7	0.20	1
sec-Butylbenzene	1.2	J	ug/kg	1.7	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.7	0.69	1
Isopropylbenzene	6.1		ug/kg	1.7	0.18	1
p-Isopropyltoluene	4.2		ug/kg	1.7	0.22	1
n-Propylbenzene	2.4		ug/kg	1.7	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	8.7	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	8.7	0.32	1
1,3,5-Trimethylbenzene	6.2	J	ug/kg	8.7	0.25	1
1,2,4-Trimethylbenzene	17		ug/kg	8.7	0.25	1
Methyl Acetate	ND		ug/kg	35	0.47	1
Cyclohexane	3.1	J	ug/kg	35	0.26	1
1,4-Dioxane	ND		ug/kg	170	25.	1
Freon-113	ND		ug/kg	35	0.48	1
Methyl cyclohexane	27		ug/kg	7.0	0.27	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	129		70-130
Dibromofluoromethane	100		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

Lab ID: L1637141-09  
 Client ID: S-12  
 Sample Location: BUFFALO, NY  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 11/21/16 10:41  
 Analyst: JC  
 Percent Solids: 91%

Date Collected: 11/15/16 14:46  
 Date Received: 11/15/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Volatile Organics by GC/MS - Westborough Lab**

Methylene chloride	1.9	J	ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	1.5		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	5.2		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.5	0.32	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	0.79	J	ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
1,4-Dichlorobenzene	0.72	J	ug/kg	5.5	0.15	1



Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-09

Date Collected: 11/15/16 14:46

Client ID: S-12

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1
p/m-Xylene	ND		ug/kg	2.2	0.39	1
o-Xylene	ND		ug/kg	2.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	ND		ug/kg	11	1.1	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.30	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
2-Hexanone	ND		ug/kg	11	0.74	1
Bromochloromethane	ND		ug/kg	5.5	0.30	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.19	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.44	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
Methyl Acetate	ND		ug/kg	22	0.30	1
Cyclohexane	ND		ug/kg	22	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
Freon-113	ND		ug/kg	22	0.30	1
Methyl cyclohexane	ND		ug/kg	4.4	0.17	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

**Lab ID:** L1637141-10  
**Client ID:** S-15  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/21/16 11:07  
**Analyst:** JC  
**Percent Solids:** 52%

**Date Collected:** 11/15/16 14:52  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	3.5	J	ug/kg	19	2.1	1
1,1-Dichloroethane	ND		ug/kg	2.9	0.16	1
Chloroform	ND		ug/kg	2.9	0.71	1
Carbon tetrachloride	ND		ug/kg	1.9	0.40	1
1,2-Dichloropropane	ND		ug/kg	6.7	0.44	1
Dibromochloromethane	ND		ug/kg	1.9	0.30	1
1,1,2-Trichloroethane	ND		ug/kg	2.9	0.58	1
Tetrachloroethene	1.9		ug/kg	1.9	0.27	1
Chlorobenzene	ND		ug/kg	1.9	0.67	1
Trichlorofluoromethane	ND		ug/kg	9.6	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.9	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	1.9	0.21	1
Bromodichloromethane	ND		ug/kg	1.9	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.9	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.9	0.23	1
Bromoform	ND		ug/kg	7.7	0.45	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.9	0.19	1
Benzene	2.1		ug/kg	1.9	0.23	1
Toluene	2.4	J	ug/kg	2.9	0.37	1
Ethylbenzene	1.1	J	ug/kg	1.9	0.24	1
Chloromethane	ND		ug/kg	9.6	0.56	1
Bromomethane	ND		ug/kg	3.8	0.65	1
Vinyl chloride	ND		ug/kg	3.8	0.22	1
Chloroethane	ND		ug/kg	3.8	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.9	0.50	1
trans-1,2-Dichloroethene	ND		ug/kg	2.9	0.41	1
Trichloroethene	7.8		ug/kg	1.9	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	9.6	0.29	1
1,3-Dichlorobenzene	ND		ug/kg	9.6	0.26	1
1,4-Dichlorobenzene	0.50	J	ug/kg	9.6	0.27	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-10

Date Collected: 11/15/16 14:52

Client ID: S-15

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.8	0.16	1
p/m-Xylene	3.4	J	ug/kg	3.8	0.68	1
o-Xylene	1.9	J	ug/kg	3.8	0.65	1
cis-1,2-Dichloroethene	1.2	J	ug/kg	1.9	0.27	1
Styrene	ND		ug/kg	3.8	0.77	1
Dichlorodifluoromethane	ND		ug/kg	19	0.37	1
Acetone	280		ug/kg	19	2.0	1
Carbon disulfide	ND		ug/kg	19	2.1	1
2-Butanone	23		ug/kg	19	0.52	1
4-Methyl-2-pentanone	4.4	J	ug/kg	19	0.47	1
2-Hexanone	ND		ug/kg	19	1.3	1
Bromochloromethane	ND		ug/kg	9.6	0.53	1
1,2-Dibromoethane	ND		ug/kg	7.7	0.34	1
n-Butylbenzene	ND		ug/kg	1.9	0.22	1
sec-Butylbenzene	ND		ug/kg	1.9	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.6	0.76	1
Isopropylbenzene	0.77	J	ug/kg	1.9	0.20	1
p-Isopropyltoluene	2.3		ug/kg	1.9	0.24	1
n-Propylbenzene	1.0	J	ug/kg	1.9	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	9.6	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	9.6	0.35	1
1,3,5-Trimethylbenzene	4.2	J	ug/kg	9.6	0.28	1
1,2,4-Trimethylbenzene	8.2	J	ug/kg	9.6	0.27	1
Methyl Acetate	ND		ug/kg	38	0.52	1
Cyclohexane	5.4	J	ug/kg	38	0.28	1
1,4-Dioxane	ND		ug/kg	190	28.	1
Freon-113	ND		ug/kg	38	0.53	1
Methyl cyclohexane	1.6	J	ug/kg	7.7	0.30	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	165	Q	70-130
Dibromofluoromethane	102		70-130

**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**SAMPLE RESULTS**

Lab ID: L1637141-10 R  
 Client ID: S-15  
 Sample Location: BUFFALO, NY  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 11/22/16 10:55  
 Analyst: BN  
 Percent Solids: 52%

Date Collected: 11/15/16 14:52  
 Date Received: 11/15/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	3.2	J	ug/kg	19	2.1	1
1,1-Dichloroethane	ND		ug/kg	2.9	0.16	1
Chloroform	ND		ug/kg	2.9	0.71	1
Carbon tetrachloride	ND		ug/kg	1.9	0.40	1
1,2-Dichloropropane	ND		ug/kg	6.7	0.44	1
Dibromochloromethane	ND		ug/kg	1.9	0.30	1
1,1,2-Trichloroethane	ND		ug/kg	2.9	0.58	1
Tetrachloroethene	2.5		ug/kg	1.9	0.27	1
Chlorobenzene	ND		ug/kg	1.9	0.67	1
Trichlorofluoromethane	ND		ug/kg	9.6	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.9	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	1.9	0.21	1
Bromodichloromethane	ND		ug/kg	1.9	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.9	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.9	0.23	1
Bromoform	ND		ug/kg	7.7	0.45	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.9	0.19	1
Benzene	2.4		ug/kg	1.9	0.23	1
Toluene	2.5	J	ug/kg	2.9	0.37	1
Ethylbenzene	1.6	J	ug/kg	1.9	0.24	1
Chloromethane	ND		ug/kg	9.6	0.56	1
Bromomethane	ND		ug/kg	3.8	0.65	1
Vinyl chloride	ND		ug/kg	3.8	0.22	1
Chloroethane	ND		ug/kg	3.8	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.9	0.50	1
trans-1,2-Dichloroethene	ND		ug/kg	2.9	0.41	1
Trichloroethene	10		ug/kg	1.9	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	9.6	0.29	1
1,3-Dichlorobenzene	ND		ug/kg	9.6	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	9.6	0.27	1

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## SAMPLE RESULTS

Lab ID: L1637141-10 R

Date Collected: 11/15/16 14:52

Client ID: S-15

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.8	0.16	1
p/m-Xylene	4.3		ug/kg	3.8	0.68	1
o-Xylene	2.7	J	ug/kg	3.8	0.65	1
cis-1,2-Dichloroethene	1.6	J	ug/kg	1.9	0.27	1
Styrene	ND		ug/kg	3.8	0.77	1
Dichlorodifluoromethane	ND		ug/kg	19	0.37	1
Acetone	290		ug/kg	19	2.0	1
Carbon disulfide	ND		ug/kg	19	2.1	1
2-Butanone	33		ug/kg	19	0.52	1
4-Methyl-2-pentanone	ND		ug/kg	19	0.47	1
2-Hexanone	ND		ug/kg	19	1.3	1
Bromochloromethane	ND		ug/kg	9.6	0.53	1
1,2-Dibromoethane	ND		ug/kg	7.7	0.34	1
n-Butylbenzene	ND		ug/kg	1.9	0.22	1
sec-Butylbenzene	ND		ug/kg	1.9	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.6	0.76	1
Isopropylbenzene	0.99	J	ug/kg	1.9	0.20	1
p-Isopropyltoluene	3.8		ug/kg	1.9	0.24	1
n-Propylbenzene	1.4	J	ug/kg	1.9	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	9.6	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	9.6	0.35	1
1,3,5-Trimethylbenzene	5.7	J	ug/kg	9.6	0.28	1
1,2,4-Trimethylbenzene	13		ug/kg	9.6	0.27	1
Methyl Acetate	ND		ug/kg	38	0.52	1
Cyclohexane	7.5	J	ug/kg	38	0.28	1
1,4-Dioxane	ND		ug/kg	190	28.	1
Freon-113	ND		ug/kg	38	0.53	1
Methyl cyclohexane	2.5	J	ug/kg	7.7	0.30	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	155	Q	70-130
Dibromofluoromethane	102		70-130

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-00

Report Date: 11/22/16

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/21/16 08:38  
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG954335-10					
Methylene chloride	1.2	J	ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	2.2		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-00

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/21/16 08:38  
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG954335-10					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-00

Report Date: 11/22/16

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/21/16 08:38  
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG954335-10					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	97		70-130



Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-00

Report Date: 11/22/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/20/16 12:53  
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG954335-5					
Methylene chloride	1.7	J	ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	0.92	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-00

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/20/16 12:53  
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG954335-5					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-00

Report Date: 11/22/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/20/16 12:53  
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG954335-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	93		70-130

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-00

Report Date: 11/22/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/20/16 13:07  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,04-06 Batch: WG954357-5					
Methylene chloride	ND		ug/kg	500	55.
1,1-Dichloroethane	ND		ug/kg	75	4.3
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	7.7
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	19.
1,2-Dichloroethane	ND		ug/kg	50	5.7
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	8.7
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	5.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	5.0
Benzene	ND		ug/kg	50	5.9
Toluene	ND		ug/kg	75	9.7
Ethylbenzene	ND		ug/kg	50	6.4
Chloromethane	ND		ug/kg	250	15.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	5.9
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	13.
trans-1,2-Dichloroethene	ND		ug/kg	75	11.
Trichloroethene	ND		ug/kg	50	6.2
1,2-Dichlorobenzene	ND		ug/kg	250	7.7
1,3-Dichlorobenzene	ND		ug/kg	250	6.8

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-00

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/20/16 13:07  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,04-06 Batch: WG954357-5					
1,4-Dichlorobenzene	ND		ug/kg	250	6.9
Methyl tert butyl ether	ND		ug/kg	100	4.2
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.1
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	9.5
Acetone	ND		ug/kg	500	52.
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	14.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	14.
1,2-Dibromoethane	ND		ug/kg	200	8.7
n-Butylbenzene	ND		ug/kg	50	5.7
sec-Butylbenzene	ND		ug/kg	50	6.1
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Isopropylbenzene	ND		ug/kg	50	5.2
p-Isopropyltoluene	ND		ug/kg	50	6.2
n-Propylbenzene	ND		ug/kg	50	5.5
1,2,3-Trichlorobenzene	ND		ug/kg	250	7.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	9.1
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	7.1
Methyl Acetate	ND		ug/kg	1000	14.
Cyclohexane	ND		ug/kg	1000	7.3
1,4-Dioxane	ND		ug/kg	5000	720
Freon-113	ND		ug/kg	1000	14.
Methyl cyclohexane	ND		ug/kg	200	7.7

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-00

Report Date: 11/22/16

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/20/16 13:07  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,04-06 Batch: WG954357-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-00

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/21/16 08:30  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-10 Batch: WG954698-5					
Methylene chloride	1.6	J	ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-00

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/21/16 08:30  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-10 Batch: WG954698-5					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15



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**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/21/16 08:30  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-10 Batch: WG954698-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-00

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/22/16 09:03  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG954834-5					
Methylene chloride	1.3	J	ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21

Project Name: 791 WASHINGTON STREET

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**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/22/16 09:03  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG954834-5					
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylene (Total)	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene (total)	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14

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**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/22/16 09:03  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG954834-5					
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12

Project Name: 791 WASHINGTON STREET

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**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/22/16 09:03  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG954834-5					
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	99		70-130

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-00

Report Date: 11/22/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/22/16 08:45  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG954851-5					
Methylene chloride	62	J	ug/kg	500	55.
1,1-Dichloroethane	ND		ug/kg	75	4.3
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	7.7
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	19.
1,2-Dichloroethane	ND		ug/kg	50	5.7
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	8.7
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	5.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	5.0
Benzene	ND		ug/kg	50	5.9
Toluene	ND		ug/kg	75	9.7
Ethylbenzene	ND		ug/kg	50	6.4
Chloromethane	ND		ug/kg	250	15.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	5.9
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	13.
trans-1,2-Dichloroethene	ND		ug/kg	75	11.
Trichloroethene	ND		ug/kg	50	6.2
1,2-Dichlorobenzene	ND		ug/kg	250	7.7
1,3-Dichlorobenzene	ND		ug/kg	250	6.8

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Lab Number: L1637141

Project Number: 0092-016-001-005-00

Report Date: 11/22/16

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/22/16 08:45  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG954851-5					
1,4-Dichlorobenzene	ND		ug/kg	250	6.9
Methyl tert butyl ether	ND		ug/kg	100	4.2
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.1
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	9.5
Acetone	ND		ug/kg	500	52.
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	14.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	14.
1,2-Dibromoethane	ND		ug/kg	200	8.7
n-Butylbenzene	ND		ug/kg	50	5.7
sec-Butylbenzene	ND		ug/kg	50	6.1
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Isopropylbenzene	ND		ug/kg	50	5.2
p-Isopropyltoluene	ND		ug/kg	50	6.2
n-Propylbenzene	ND		ug/kg	50	5.5
1,2,3-Trichlorobenzene	ND		ug/kg	250	7.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	9.1
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	7.1
Methyl Acetate	ND		ug/kg	1000	14.
Cyclohexane	ND		ug/kg	1000	7.3
1,4-Dioxane	ND		ug/kg	5000	720
Freon-113	ND		ug/kg	1000	14.
Methyl cyclohexane	ND		ug/kg	200	7.7

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Lab Number: L1637141

Project Number: 0092-016-001-005-00

Report Date: 11/22/16

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 11/22/16 08:45  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG954851-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	114		70-130



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG954335-3 WG954335-4								
Methylene chloride	115		114		70-130	1		30
1,1-Dichloroethane	108		105		70-130	3		30
Chloroform	110		109		70-130	1		30
Carbon tetrachloride	114		104		70-130	9		30
1,2-Dichloropropane	107		106		70-130	1		30
Dibromochloromethane	102		104		70-130	2		30
2-Chloroethylvinyl ether	93		94		70-130	1		30
1,1,2-Trichloroethane	98		101		70-130	3		30
Tetrachloroethene	110		102		70-130	8		30
Chlorobenzene	105		103		70-130	2		30
Trichlorofluoromethane	122		110		70-139	10		30
1,2-Dichloroethane	108		108		70-130	0		30
1,1,1-Trichloroethane	114		108		70-130	5		30
Bromodichloromethane	107		108		70-130	1		30
trans-1,3-Dichloropropene	93		94		70-130	1		30
cis-1,3-Dichloropropene	107		109		70-130	2		30
1,1-Dichloropropene	116		106		70-130	9		30
Bromoform	91		96		70-130	5		30
1,1,2,2-Tetrachloroethane	91		93		70-130	2		30
Benzene	107		104		70-130	3		30
Toluene	103		99		70-130	4		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG954335-3 WG954335-4								
Ethylbenzene	105		102		70-130	3		30
Chloromethane	113		107		52-130	5		30
Bromomethane	134		127		57-147	5		30
Vinyl chloride	121		108		67-130	11		30
Chloroethane	118		110		50-151	7		30
1,1-Dichloroethene	131		108		65-135	19		30
trans-1,2-Dichloroethene	114		109		70-130	4		30
Trichloroethene	112		108		70-130	4		30
1,2-Dichlorobenzene	100		97		70-130	3		30
1,3-Dichlorobenzene	100		97		70-130	3		30
1,4-Dichlorobenzene	100		98		70-130	2		30
Methyl tert butyl ether	106		109		66-130	3		30
p/m-Xylene	106		103		70-130	3		30
o-Xylene	106		104		70-130	2		30
cis-1,2-Dichloroethene	113		111		70-130	2		30
Dibromomethane	107		108		70-130	1		30
Styrene	106		104		70-130	2		30
Dichlorodifluoromethane	146		128		30-146	13		30
Acetone	96		106		54-140	10		30
Carbon disulfide	108		102		59-130	6		30
2-Butanone	89		88		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET

**Lab Number:** L1637141

**Project Number:** 0092-016-001-005-002

**Report Date:** 11/22/16

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG954335-3 WG954335-4								
Vinyl acetate	99		100		70-130	1		30
4-Methyl-2-pentanone	84		90		70-130	7		30
1,2,3-Trichloropropane	91		93		68-130	2		30
2-Hexanone	81		85		70-130	5		30
Bromochloromethane	115		116		70-130	1		30
2,2-Dichloropropane	115		110		70-130	4		30
1,2-Dibromoethane	101		102		70-130	1		30
1,3-Dichloropropane	98		100		69-130	2		30
1,1,1,2-Tetrachloroethane	104		104		70-130	0		30
Bromobenzene	101		98		70-130	3		30
n-Butylbenzene	101		94		70-130	7		30
sec-Butylbenzene	101		94		70-130	7		30
tert-Butylbenzene	102		96		70-130	6		30
o-Chlorotoluene	99		96		70-130	3		30
p-Chlorotoluene	100		96		70-130	4		30
1,2-Dibromo-3-chloropropane	88		93		68-130	6		30
Hexachlorobutadiene	101		96		67-130	5		30
Isopropylbenzene	101		94		70-130	7		30
p-Isopropyltoluene	101		96		70-130	5		30
Naphthalene	91		93		70-130	2		30
Acrylonitrile	99		99		70-130	0		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG954335-3 WG954335-4								
Isopropyl Ether	97		96		66-130	1		30
tert-Butyl Alcohol	91		97		70-130	6		30
n-Propylbenzene	100		94		70-130	6		30
1,2,3-Trichlorobenzene	98		99		70-130	1		30
1,2,4-Trichlorobenzene	100		100		70-130	0		30
1,3,5-Trimethylbenzene	102		98		70-130	4		30
1,2,4-Trimethylbenzene	101		98		70-130	3		30
Methyl Acetate	88		92		51-146	4		30
Ethyl Acetate	90		93		70-130	3		30
Acrolein	87		90		70-130	3		30
Cyclohexane	107		97		59-142	10		30
1,4-Dioxane	92		93		65-136	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	113		101		50-139	11		30
p-Diethylbenzene	99		94		70-130	5		30
p-Ethyltoluene	97		93		70-130	4		30
1,2,4,5-Tetramethylbenzene	97		94		70-130	3		30
Tetrahydrofuran	95		101		66-130	6		30
Ethyl ether	118		103		67-130	14		30
trans-1,4-Dichloro-2-butene	92		92		70-130	0		30
Methyl cyclohexane	104		93		70-130	11		30
Ethyl-Tert-Butyl-Ether	101		102		70-130	1		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG954335-3 WG954335-4								
Tertiary-Amyl Methyl Ether	101		101		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		96		70-130
Toluene-d8	96		97		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	97		97		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET

**Lab Number:** L1637141

**Project Number:** 0092-016-001-005-002

**Report Date:** 11/22/16

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG954335-8 WG954335-9								
Methylene chloride	109		110		70-130	1		30
1,1-Dichloroethane	103		99		70-130	4		30
Chloroform	106		104		70-130	2		30
Carbon tetrachloride	104		94		70-130	10		30
1,2-Dichloropropane	101		98		70-130	3		30
Dibromochloromethane	96		96		70-130	0		30
2-Chloroethylvinyl ether	88		91		70-130	3		30
1,1,2-Trichloroethane	94		94		70-130	0		30
Tetrachloroethene	101		89		70-130	13		30
Chlorobenzene	97		93		70-130	4		30
Trichlorofluoromethane	116		98		70-139	17		30
1,2-Dichloroethane	111		111		70-130	0		30
1,1,1-Trichloroethane	110		100		70-130	10		30
Bromodichloromethane	104		104		70-130	0		30
trans-1,3-Dichloropropene	88		88		70-130	0		30
cis-1,3-Dichloropropene	101		101		70-130	0		30
1,1-Dichloropropene	106		95		70-130	11		30
Bromoform	84		86		70-130	2		30
1,1,2,2-Tetrachloroethane	84		87		70-130	4		30
Benzene	99		96		70-130	3		30
Toluene	95		88		70-130	8		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG954335-8 WG954335-9								
Ethylbenzene	97		90		70-130	7		30
Chloromethane	106		98		52-130	8		30
Bromomethane	126		120		57-147	5		30
Vinyl chloride	108		95		67-130	13		30
Chloroethane	111		97		50-151	13		30
1,1-Dichloroethene	98		94		65-135	4		30
trans-1,2-Dichloroethene	106		99		70-130	7		30
Trichloroethene	106		99		70-130	7		30
1,2-Dichlorobenzene	89		90		70-130	1		30
1,3-Dichlorobenzene	91		90		70-130	1		30
1,4-Dichlorobenzene	92		89		70-130	3		30
Methyl tert butyl ether	105		107		66-130	2		30
p/m-Xylene	98		90		70-130	9		30
o-Xylene	98		94		70-130	4		30
cis-1,2-Dichloroethene	105		102		70-130	3		30
Dibromomethane	104		105		70-130	1		30
Styrene	97		95		70-130	2		30
Dichlorodifluoromethane	137		110		30-146	22		30
Acetone	99		94		54-140	5		30
Carbon disulfide	87		90		59-130	3		30
2-Butanone	82		87		70-130	6		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG954335-8 WG954335-9								
Vinyl acetate	97		98		70-130	1		30
4-Methyl-2-pentanone	80		82		70-130	2		30
1,2,3-Trichloropropane	86		88		68-130	2		30
2-Hexanone	76		80		70-130	5		30
Bromochloromethane	108		108		70-130	0		30
2,2-Dichloropropane	108		100		70-130	8		30
1,2-Dibromoethane	94		94		70-130	0		30
1,3-Dichloropropane	94		92		69-130	2		30
1,1,1,2-Tetrachloroethane	96		95		70-130	1		30
Bromobenzene	90		90		70-130	0		30
n-Butylbenzene	89		82		70-130	8		30
sec-Butylbenzene	88		82		70-130	7		30
tert-Butylbenzene	90		84		70-130	7		30
o-Chlorotoluene	88		86		70-130	2		30
p-Chlorotoluene	90		88		70-130	2		30
1,2-Dibromo-3-chloropropane	76		81		68-130	6		30
Hexachlorobutadiene	92		82		67-130	11		30
Isopropylbenzene	89		84		70-130	6		30
p-Isopropyltoluene	90		84		70-130	7		30
Naphthalene	85		86		70-130	1		30
Acrylonitrile	94		93		70-130	1		30



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG954335-8 WG954335-9								
Isopropyl Ether	92		92		66-130	0		30
tert-Butyl Alcohol	89		92		70-130	3		30
n-Propylbenzene	89		82		70-130	8		30
1,2,3-Trichlorobenzene	93		90		70-130	3		30
1,2,4-Trichlorobenzene	91		88		70-130	3		30
1,3,5-Trimethylbenzene	91		88		70-130	3		30
1,2,4-Trimethylbenzene	92		88		70-130	4		30
Methyl Acetate	88		90		51-146	2		30
Ethyl Acetate	88		91		70-130	3		30
Acrolein	85		95		70-130	11		30
Cyclohexane	94		78		59-142	19		30
1,4-Dioxane	92		93		65-136	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	95		86		50-139	10		30
p-Diethylbenzene	87		82		70-130	6		30
p-Ethyltoluene	88		82		70-130	7		30
1,2,4,5-Tetramethylbenzene	87		85		70-130	2		30
Tetrahydrofuran	92		94		66-130	2		30
Ethyl ether	97		98		67-130	1		30
trans-1,4-Dichloro-2-butene	84		87		70-130	4		30
Methyl cyclohexane	91		76		70-130	18		30
Ethyl-Tert-Butyl-Ether	98		98		70-130	0		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG954335-8 WG954335-9								
Tertiary-Amyl Methyl Ether	96		98		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	97		94		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	100		101		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 Batch: WG954357-3 WG954357-4								
Methylene chloride	114		115		70-130	1		30
1,1-Dichloroethane	111		104		70-130	7		30
Chloroform	121		115		70-130	5		30
Carbon tetrachloride	114		100		70-130	13		30
1,2-Dichloropropane	107		105		70-130	2		30
Dibromochloromethane	105		107		70-130	2		30
2-Chloroethylvinyl ether	106		113		70-130	6		30
1,1,2-Trichloroethane	101		103		70-130	2		30
Tetrachloroethene	94		88		70-130	7		30
Chlorobenzene	103		101		70-130	2		30
Trichlorofluoromethane	105		85		70-139	21		30
1,2-Dichloroethane	107		107		70-130	0		30
1,1,1-Trichloroethane	119		104		70-130	13		30
Bromodichloromethane	123		120		70-130	2		30
trans-1,3-Dichloropropene	105		107		70-130	2		30
cis-1,3-Dichloropropene	122		122		70-130	0		30
1,1-Dichloropropene	120		104		70-130	14		30
Bromoform	96		95		70-130	1		30
1,1,2,2-Tetrachloroethane	109		110		70-130	1		30
Benzene	120		111		70-130	8		30
Toluene	103		98		70-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 Batch: WG954357-3 WG954357-4								
Ethylbenzene	104		97		70-130	7		30
Chloromethane	110		99		52-130	11		30
Bromomethane	123		111		57-147	10		30
Vinyl chloride	118		98		67-130	19		30
Chloroethane	134		116		50-151	14		30
1,1-Dichloroethene	117		101		65-135	15		30
trans-1,2-Dichloroethene	121		111		70-130	9		30
Trichloroethene	116		109		70-130	6		30
1,2-Dichlorobenzene	102		101		70-130	1		30
1,3-Dichlorobenzene	105		102		70-130	3		30
1,4-Dichlorobenzene	102		101		70-130	1		30
Methyl tert butyl ether	118		119		66-130	1		30
p/m-Xylene	103		98		70-130	5		30
o-Xylene	104		100		70-130	4		30
cis-1,2-Dichloroethene	121		116		70-130	4		30
Dibromomethane	115		114		70-130	1		30
Styrene	103		102		70-130	1		30
Dichlorodifluoromethane	131		103		30-146	24		30
Acetone	99		96		54-140	3		30
Carbon disulfide	119		106		59-130	12		30
2-Butanone	107		112		70-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET

**Lab Number:** L1637141

**Project Number:** 0092-016-001-005-002

**Report Date:** 11/22/16

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 Batch: WG954357-3 WG954357-4								
Vinyl acetate	112		111		70-130	1		30
4-Methyl-2-pentanone	87		88		70-130	1		30
1,2,3-Trichloropropane	102		107		68-130	5		30
2-Hexanone	82		87		70-130	6		30
Bromochloromethane	121		121		70-130	0		30
2,2-Dichloropropane	125		110		70-130	13		30
1,2-Dibromoethane	103		106		70-130	3		30
1,3-Dichloropropane	109		113		69-130	4		30
1,1,1,2-Tetrachloroethane	111		110		70-130	1		30
Bromobenzene	99		96		70-130	3		30
n-Butylbenzene	109		97		70-130	12		30
sec-Butylbenzene	108		95		70-130	13		30
tert-Butylbenzene	106		96		70-130	10		30
o-Chlorotoluene	103		97		70-130	6		30
p-Chlorotoluene	104		98		70-130	6		30
1,2-Dibromo-3-chloropropane	93		98		68-130	5		30
Hexachlorobutadiene	90		80		67-130	12		30
Isopropylbenzene	108		98		70-130	10		30
p-Isopropyltoluene	106		97		70-130	9		30
Naphthalene	105		108		70-130	3		30
Acrylonitrile	95		98		70-130	3		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 Batch: WG954357-3 WG954357-4								
Isopropyl Ether	100		99		66-130	1		30
tert-Butyl Alcohol	93		98		70-130	5		30
n-Propylbenzene	107		99		70-130	8		30
1,2,3-Trichlorobenzene	96		95		70-130	1		30
1,2,4-Trichlorobenzene	98		96		70-130	2		30
1,3,5-Trimethylbenzene	101		95		70-130	6		30
1,2,4-Trimethylbenzene	102		96		70-130	6		30
Methyl Acetate	98		104		51-146	6		30
Ethyl Acetate	100		104		70-130	4		30
Acrolein	74		87		70-130	16		30
Cyclohexane	94		76		59-142	21		30
1,4-Dioxane	105		112		65-136	6		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	112		89		50-139	23		30
p-Diethylbenzene	102		92		70-130	10		30
p-Ethyltoluene	103		95		70-130	8		30
1,2,4,5-Tetramethylbenzene	96		92		70-130	4		30
Tetrahydrofuran	102		106		66-130	4		30
Ethyl ether	120		120		67-130	0		30
trans-1,4-Dichloro-2-butene	87		92		70-130	6		30
Methyl cyclohexane	114		92		70-130	21		30
Ethyl-Tert-Butyl-Ether	99		100		70-130	1		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 Batch: WG954357-3 WG954357-4								
Tertiary-Amyl Methyl Ether	116		119		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		90		70-130
Toluene-d8	87		89		70-130
4-Bromofluorobenzene	95		94		70-130
Dibromofluoromethane	100		99		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 Batch: WG954698-3 WG954698-4								
Methylene chloride	101		101		70-130	0		30
1,1-Dichloroethane	110		107		70-130	3		30
Chloroform	100		99		70-130	1		30
Carbon tetrachloride	100		90		70-130	11		30
1,2-Dichloropropane	108		108		70-130	0		30
Dibromochloromethane	97		100		70-130	3		30
2-Chloroethylvinyl ether	56	Q	59	Q	70-130	5		30
1,1,2-Trichloroethane	101		101		70-130	0		30
Tetrachloroethene	102		95		70-130	7		30
Chlorobenzene	104		103		70-130	1		30
Trichlorofluoromethane	117		105		70-139	11		30
1,2-Dichloroethane	106		109		70-130	3		30
1,1,1-Trichloroethane	102		96		70-130	6		30
Bromodichloromethane	96		98		70-130	2		30
trans-1,3-Dichloropropene	96		98		70-130	2		30
cis-1,3-Dichloropropene	93		93		70-130	0		30
1,1-Dichloropropene	101		94		70-130	7		30
Bromoform	92		92		70-130	0		30
1,1,2,2-Tetrachloroethane	91		95		70-130	4		30
Benzene	100		97		70-130	3		30
Toluene	106		101		70-130	5		30



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 Batch: WG954698-3 WG954698-4								
Ethylbenzene	109		104		70-130	5		30
Chloromethane	123		115		52-130	7		30
Bromomethane	119		116		57-147	3		30
Vinyl chloride	126		114		67-130	10		30
Chloroethane	144		133		50-151	8		30
1,1-Dichloroethene	118		107		65-135	10		30
trans-1,2-Dichloroethene	103		98		70-130	5		30
Trichloroethene	106		102		70-130	4		30
1,2-Dichlorobenzene	105		104		70-130	1		30
1,3-Dichlorobenzene	107		106		70-130	1		30
1,4-Dichlorobenzene	108		106		70-130	2		30
Methyl tert butyl ether	98		101		66-130	3		30
p/m-Xylene	107		103		70-130	4		30
o-Xylene	106		103		70-130	3		30
cis-1,2-Dichloroethene	101		99		70-130	2		30
Dibromomethane	98		100		70-130	2		30
Styrene	107		105		70-130	2		30
Dichlorodifluoromethane	101		86		30-146	16		30
Acetone	102		101		54-140	1		30
Carbon disulfide	100		94		59-130	6		30
2-Butanone	107		100		70-130	7		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 Batch: WG954698-3 WG954698-4								
Vinyl acetate	82		87		70-130	6		30
4-Methyl-2-pentanone	110		115		70-130	4		30
1,2,3-Trichloropropane	101		103		68-130	2		30
2-Hexanone	103		111		70-130	7		30
Bromochloromethane	102		102		70-130	0		30
2,2-Dichloropropane	103		96		70-130	7		30
1,2-Dibromoethane	98		100		70-130	2		30
1,3-Dichloropropane	103		104		69-130	1		30
1,1,1,2-Tetrachloroethane	104		101		70-130	3		30
Bromobenzene	103		101		70-130	2		30
n-Butylbenzene	120		110		70-130	9		30
sec-Butylbenzene	107		98		70-130	9		30
tert-Butylbenzene	105		98		70-130	7		30
o-Chlorotoluene	110		105		70-130	5		30
p-Chlorotoluene	109		106		70-130	3		30
1,2-Dibromo-3-chloropropane	89		95		68-130	7		30
Hexachlorobutadiene	91		83		67-130	9		30
Isopropylbenzene	107		98		70-130	9		30
p-Isopropyltoluene	110		102		70-130	8		30
Naphthalene	96		97		70-130	1		30
Acrylonitrile	110		116		70-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET

**Lab Number:** L1637141

**Project Number:** 0092-016-001-005-002

**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 Batch: WG954698-3 WG954698-4								
Isopropyl Ether	110		112		66-130	2		30
tert-Butyl Alcohol	88		95		70-130	8		30
n-Propylbenzene	111		104		70-130	7		30
1,2,3-Trichlorobenzene	98		98		70-130	0		30
1,2,4-Trichlorobenzene	103		102		70-130	1		30
1,3,5-Trimethylbenzene	105		100		70-130	5		30
1,2,4-Trimethylbenzene	106		103		70-130	3		30
Methyl Acetate	102		108		51-146	6		30
Ethyl Acetate	93		98		70-130	5		30
Acrolein	122		116		70-130	5		30
Cyclohexane	108		96		59-142	12		30
1,4-Dioxane	88		101		65-136	14		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		88		50-139	13		30
p-Diethylbenzene	107		100		70-130	7		30
p-Ethyltoluene	102		97		70-130	5		30
1,2,4,5-Tetramethylbenzene	101		99		70-130	2		30
Tetrahydrofuran	96		112		66-130	15		30
Ethyl ether	115		118		67-130	3		30
trans-1,4-Dichloro-2-butene	84		82		70-130	2		30
Methyl cyclohexane	95		84		70-130	12		30
Ethyl-Tert-Butyl-Ether	105		107		70-130	2		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 Batch: WG954698-3 WG954698-4								
Tertiary-Amyl Methyl Ether	93		94		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		109		70-130
Toluene-d8	106		107		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	100		102		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG954834-3 WG954834-4								
Methylene chloride	90		87		70-130	3		30
1,1-Dichloroethane	92		90		70-130	2		30
Chloroform	97		96		70-130	1		30
Carbon tetrachloride	108		100		70-130	8		30
1,2-Dichloropropane	84		84		70-130	0		30
Dibromochloromethane	96		94		70-130	2		30
2-Chloroethylvinyl ether	74		68	Q	70-130	8		30
1,1,2-Trichloroethane	90		89		70-130	1		30
Tetrachloroethene	110		106		70-130	4		30
Chlorobenzene	93		92		70-130	1		30
Trichlorofluoromethane	119		109		70-139	9		30
1,2-Dichloroethane	108		107		70-130	1		30
1,1,1-Trichloroethane	104		98		70-130	6		30
Bromodichloromethane	96		95		70-130	1		30
trans-1,3-Dichloropropene	100		100		70-130	0		30
cis-1,3-Dichloropropene	91		90		70-130	1		30
1,1-Dichloropropene	97		90		70-130	7		30
Bromoform	100		96		70-130	4		30
1,1,2,2-Tetrachloroethane	79		75		70-130	5		30
Benzene	87		84		70-130	4		30
Toluene	92		89		70-130	3		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG954834-3 WG954834-4								
Ethylbenzene	95		93		70-130	2		30
Chloromethane	96		91		52-130	5		30
Bromomethane	117		108		57-147	8		30
Vinyl chloride	97		88		67-130	10		30
Chloroethane	101		96		50-151	5		30
1,1-Dichloroethene	93		84		65-135	10		30
trans-1,2-Dichloroethene	93		91		70-130	2		30
Trichloroethene	95		92		70-130	3		30
1,2-Dichlorobenzene	85		85		70-130	0		30
1,3-Dichlorobenzene	88		87		70-130	1		30
1,4-Dichlorobenzene	87		85		70-130	2		30
Methyl tert butyl ether	96		94		66-130	2		30
p/m-Xylene	97		95		70-130	2		30
o-Xylene	97		96		70-130	1		30
cis-1,2-Dichloroethene	93		90		70-130	3		30
Dibromomethane	90		87		70-130	3		30
Styrene	95		95		70-130	0		30
Dichlorodifluoromethane	104		93		30-146	11		30
Acetone	94		90		54-140	4		30
Carbon disulfide	79		76		59-130	4		30
2-Butanone	85		79		70-130	7		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG954834-3 WG954834-4								
Vinyl acetate	84		82		70-130	2		30
4-Methyl-2-pentanone	87		82		70-130	6		30
1,2,3-Trichloropropane	86		84		68-130	2		30
2-Hexanone	78		80		70-130	3		30
Bromochloromethane	89		85		70-130	5		30
2,2-Dichloropropane	102		97		70-130	5		30
1,2-Dibromoethane	92		91		70-130	1		30
1,3-Dichloropropane	90		88		69-130	2		30
1,1,1,2-Tetrachloroethane	98		95		70-130	3		30
Bromobenzene	88		87		70-130	1		30
n-Butylbenzene	87		82		70-130	6		30
sec-Butylbenzene	84		79		70-130	6		30
tert-Butylbenzene	89		84		70-130	6		30
o-Chlorotoluene	82		78		70-130	5		30
p-Chlorotoluene	86		84		70-130	2		30
1,2-Dibromo-3-chloropropane	84		83		68-130	1		30
Hexachlorobutadiene	120		113		67-130	6		30
Isopropylbenzene	86		82		70-130	5		30
p-Isopropyltoluene	92		86		70-130	7		30
Naphthalene	75		75		70-130	0		30
Acrylonitrile	90		84		70-130	7		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG954834-3 WG954834-4								
Isopropyl Ether	87		86		66-130	1		30
tert-Butyl Alcohol	92		90		70-130	2		30
n-Propylbenzene	86		82		70-130	5		30
1,2,3-Trichlorobenzene	98		98		70-130	0		30
1,2,4-Trichlorobenzene	100		99		70-130	1		30
1,3,5-Trimethylbenzene	88		85		70-130	3		30
1,2,4-Trimethylbenzene	88		85		70-130	3		30
Methyl Acetate	82		78		51-146	5		30
Ethyl Acetate	86		76		70-130	12		30
Acrolein	79		70		70-130	12		30
Cyclohexane	91		80		59-142	13		30
1,4-Dioxane	82		80		65-136	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	90		79		50-139	13		30
p-Diethylbenzene	89		86		70-130	3		30
p-Ethyltoluene	87		82		70-130	6		30
1,2,4,5-Tetramethylbenzene	91		88		70-130	3		30
Tetrahydrofuran	83		80		66-130	4		30
Ethyl ether	94		94		67-130	0		30
trans-1,4-Dichloro-2-butene	95		91		70-130	4		30
Methyl cyclohexane	86		77		70-130	11		30
Ethyl-Tert-Butyl-Ether	94		93		70-130	1		30



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG954834-3 WG954834-4								
Tertiary-Amyl Methyl Ether	90		91		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117		117		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	99		98		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG954851-3 WG954851-4								
Methylene chloride	115		107		70-130	7		30
1,1-Dichloroethane	109		100		70-130	9		30
Chloroform	110		103		70-130	7		30
Carbon tetrachloride	102		83		70-130	21		30
1,2-Dichloropropane	104		100		70-130	4		30
Dibromochloromethane	104		100		70-130	4		30
2-Chloroethylvinyl ether	73		72		70-130	1		30
1,1,2-Trichloroethane	116		112		70-130	4		30
Tetrachloroethene	80		70		70-130	13		30
Chlorobenzene	105		98		70-130	7		30
Trichlorofluoromethane	126		106		70-139	17		30
1,2-Dichloroethane	108		104		70-130	4		30
1,1,1-Trichloroethane	108		94		70-130	14		30
Bromodichloromethane	102		98		70-130	4		30
trans-1,3-Dichloropropene	100		96		70-130	4		30
cis-1,3-Dichloropropene	97		93		70-130	4		30
1,1-Dichloropropene	91		78		70-130	15		30
Bromoform	91		91		70-130	0		30
1,1,2,2-Tetrachloroethane	124		125		70-130	1		30
Benzene	104		97		70-130	7		30
Toluene	105		95		70-130	10		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG954851-3 WG954851-4								
Ethylbenzene	103		93		70-130	10		30
Chloromethane	116		99		52-130	16		30
Bromomethane	117		104		57-147	12		30
Vinyl chloride	105		87		67-130	19		30
Chloroethane	116		98		50-151	17		30
1,1-Dichloroethene	100		84		65-135	17		30
trans-1,2-Dichloroethene	104		94		70-130	10		30
Trichloroethene	107		96		70-130	11		30
1,2-Dichlorobenzene	106		101		70-130	5		30
1,3-Dichlorobenzene	107		102		70-130	5		30
1,4-Dichlorobenzene	104		98		70-130	6		30
Methyl tert butyl ether	101		100		66-130	1		30
p/m-Xylene	101		93		70-130	8		30
o-Xylene	98		91		70-130	7		30
cis-1,2-Dichloroethene	103		94		70-130	9		30
Dibromomethane	110		104		70-130	6		30
Styrene	100		91		70-130	9		30
Dichlorodifluoromethane	93		73		30-146	24		30
Acetone	109		97		54-140	12		30
Carbon disulfide	99		88		59-130	12		30
2-Butanone	109		107		70-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET

**Lab Number:** L1637141

**Project Number:** 0092-016-001-005-002

**Report Date:** 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG954851-3 WG954851-4								
Vinyl acetate	96		92		70-130	4		30
4-Methyl-2-pentanone	75		75		70-130	0		30
1,2,3-Trichloropropane	123		122		68-130	1		30
2-Hexanone	78		73		70-130	7		30
Bromochloromethane	117		107		70-130	9		30
2,2-Dichloropropane	103		92		70-130	11		30
1,2-Dibromoethane	101		98		70-130	3		30
1,3-Dichloropropane	105		103		69-130	2		30
1,1,1,2-Tetrachloroethane	108		100		70-130	8		30
Bromobenzene	96		94		70-130	2		30
n-Butylbenzene	114		103		70-130	10		30
sec-Butylbenzene	107		94		70-130	13		30
tert-Butylbenzene	100		91		70-130	9		30
o-Chlorotoluene	116		109		70-130	6		30
p-Chlorotoluene	116		108		70-130	7		30
1,2-Dibromo-3-chloropropane	87		95		68-130	9		30
Hexachlorobutadiene	82		74		67-130	10		30
Isopropylbenzene	100		91		70-130	9		30
p-Isopropyltoluene	103		92		70-130	11		30
Naphthalene	91		93		70-130	2		30
Acrylonitrile	102		101		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG954851-3 WG954851-4								
Isopropyl Ether	90		88		66-130	2		30
tert-Butyl Alcohol	94		95		70-130	1		30
n-Propylbenzene	114		103		70-130	10		30
1,2,3-Trichlorobenzene	82		82		70-130	0		30
1,2,4-Trichlorobenzene	77		76		70-130	1		30
1,3,5-Trimethylbenzene	116		109		70-130	6		30
1,2,4-Trimethylbenzene	111		104		70-130	7		30
Methyl Acetate	97		93		51-146	4		30
Ethyl Acetate	82		85		70-130	4		30
Acrolein	86		82		70-130	5		30
Cyclohexane	83		67		59-142	21		30
1,4-Dioxane	70		71		65-136	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	92		74		50-139	22		30
p-Diethylbenzene	97		90		70-130	7		30
p-Ethyltoluene	111		102		70-130	8		30
1,2,4,5-Tetramethylbenzene	88		85		70-130	3		30
Tetrahydrofuran	98		93		66-130	5		30
Ethyl ether	104		103		67-130	1		30
trans-1,4-Dichloro-2-butene	113		103		70-130	9		30
Methyl cyclohexane	80		64	Q	70-130	22		30
Ethyl-Tert-Butyl-Ether	94		93		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG954851-3 WG954851-4								
Tertiary-Amyl Methyl Ether	89		88		70-130	1		30

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	105		102		70-130
Toluene-d8	104		103		70-130
4-Bromofluorobenzene	105		107		70-130
Dibromofluoromethane	110		108		70-130

## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG954357-6 WG954357-7 QC Sample: L1637141-06 Client ID: RISB-28 (4-6)												
Methylene chloride	ND	836	950	114		1400	171	Q	70-130	40	Q	30
1,1-Dichloroethane	43.J	836	820	98		1400	165	Q	70-130	51	Q	30
Chloroform	ND	836	960	115		1500	181	Q	70-130	45	Q	30
Carbon tetrachloride	ND	836	660	79		1400	165	Q	70-130	71	Q	30
1,2-Dichloropropane	ND	836	900	108		1300	159	Q	70-130	38	Q	30
Dibromochloromethane	ND	836	940	112		1300	160	Q	70-130	35	Q	30
2-Chloroethylvinyl ether	ND	836	1100	128		1500	177	Q	70-130	32	Q	30
1,1,2-Trichloroethane	ND	836	950	113		1300	156	Q	70-130	31	Q	30
Tetrachloroethene	ND	836	620	75		1100	136	Q	70-130	59	Q	30
Chlorobenzene	ND	836	840	101		1300	153	Q	70-130	41	Q	30
Trichlorofluoromethane	ND	836	610	73		1400	170	Q	70-139	80	Q	30
1,2-Dichloroethane	ND	836	1000	123		1400	171	Q	70-130	33	Q	30
1,1,1-Trichloroethane	ND	836	770	92		1500	176	Q	70-130	63	Q	30
Bromodichloromethane	ND	836	1000	123		1500	184	Q	70-130	40	Q	30
trans-1,3-Dichloropropene	ND	836	950	114		1300	160	Q	70-130	34	Q	30
cis-1,3-Dichloropropene	ND	836	1000	124		1600	185	Q	70-130	39	Q	30
1,1-Dichloropropene	ND	836	740	88		1500	176	Q	70-130	67	Q	30
Bromoform	ND	836	830	100		1100	133	Q	70-130	29		30
1,1,2,2-Tetrachloroethane	ND	836	1000	121		1400	161	Q	70-130	29		30
Benzene	ND	836	880	106		1500	173	Q	70-130	49	Q	30
Toluene	ND	836	780	93		1300	150	Q	70-130	47	Q	30

## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG954357-6 WG954357-7 QC Sample: L1637141-06 Client ID: RISB-28 (4-6)												
Ethylbenzene	ND	836	760	91		1300	151	Q	70-130	50	Q	30
Chloromethane	ND	836	760	91		1400	172	Q	52-130	62	Q	30
Bromomethane	ND	836	860	103		1400	171	Q	57-147	49	Q	30
Vinyl chloride	ND	836	690	82		1500	181	Q	67-130	75	Q	30
Chloroethane	ND	836	1200	141		2200	257	Q	50-151	58	Q	30
1,1-Dichloroethene	ND	836	630	75		1300	158	Q	65-135	71	Q	30
trans-1,2-Dichloroethene	21.J	836	820	98		1400	171	Q	70-130	54	Q	30
Trichloroethene	5400	836	6000	71		6500	132	Q	70-130	8		30
1,2-Dichlorobenzene	ND	836	890	107		1300	153	Q	70-130	36	Q	30
1,3-Dichlorobenzene	ND	836	840	101		1200	148	Q	70-130	38	Q	30
1,4-Dichlorobenzene	ND	836	850	102		1300	150	Q	70-130	38	Q	30
Methyl tert butyl ether	ND	836	1100	132	Q	1500	182	Q	66-130	32	Q	30
p/m-Xylene	ND	1670	1500	90		2500	151	Q	70-130	50	Q	30
o-Xylene	ND	1670	1600	98		2600	154	Q	70-130	44	Q	30
cis-1,2-Dichloroethene	580	836	1500	112		2100	177	Q	70-130	30		30
Dibromomethane	ND	836	1100	128		1500	176	Q	70-130	31	Q	30
Styrene	ND	1670	1700	103		2600	155	Q	70-130	40	Q	30
Dichlorodifluoromethane	ND	836	620	74		1600	188	Q	30-146	87	Q	30
Acetone	ND	836	1000	120		1400	165	Q	54-140	32	Q	30
Carbon disulfide	ND	836	660	78		1300	157	Q	59-130	67	Q	30
2-Butanone	ND	836	1100	132	Q	1500	182	Q	70-130	32	Q	30



## Matrix Spike Analysis

### Batch Quality Control

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG954357-6 WG954357-7 QC Sample: L1637141-06 Client ID: RISB-28 (4-6)												
Vinyl acetate	ND	836	1000	123		1500	178	Q	70-130	37	Q	30
4-Methyl-2-pentanone	ND	836	830	100		1100	135	Q	70-130	30		30
1,2,3-Trichloropropane	ND	836	990	118		1300	157	Q	68-130	28		30
2-Hexanone	ND	836	860	103		1200	138	Q	70-130	29		30
Bromochloromethane	ND	836	1000	124		1500	181	Q	70-130	37	Q	30
2,2-Dichloropropane	ND	836	800	95		1500	178	Q	70-130	60	Q	30
1,2-Dibromoethane	ND	836	970	116		1300	159	Q	70-130	31	Q	30
1,3-Dichloropropane	ND	836	1000	123		1400	171	Q	69-130	33	Q	30
1,1,1,2-Tetrachloroethane	ND	836	940	112		1400	169	Q	70-130	40	Q	30
Bromobenzene	ND	836	800	96		1200	141	Q	70-130	38	Q	30
n-Butylbenzene	ND	836	710	85		1200	148	Q	70-130	54	Q	30
sec-Butylbenzene	ND	836	690	82		1200	148	Q	70-130	57	Q	30
tert-Butylbenzene	ND	836	700	83		1200	146	Q	70-130	55	Q	30
o-Chlorotoluene	ND	836	780	93		1200	145	Q	70-130	44	Q	30
p-Chlorotoluene	ND	836	790	95		1200	145	Q	70-130	42	Q	30
1,2-Dibromo-3-chloropropane	ND	836	930	111		1200	146	Q	68-130	27		30
Hexachlorobutadiene	ND	836	600	72		1100	127		67-130	55	Q	30
Isopropylbenzene	ND	836	700	84		1200	145	Q	70-130	53	Q	30
p-Isopropyltoluene	ND	836	720	86		1200	147	Q	70-130	53	Q	30
Naphthalene	ND	836	1000	120		1400	164	Q	70-130	31	Q	30
Acrylonitrile	ND	836	980	117		1300	154	Q	70-130	27		30

## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG954357-6 WG954357-7 QC Sample: L1637141-06 Client ID: RISB-28 (4-6)												
Isopropyl Ether	ND	836	880	106		1300	153	Q	66-130	37	Q	30
tert-Butyl Alcohol	ND	4180	5100	122		6600	157	Q	70-130	25		30
n-Propylbenzene	ND	836	720	86		1200	148	Q	70-130	53	Q	30
1,2,3-Trichlorobenzene	ND	836	860	102		1200	142	Q	70-130	33	Q	30
1,2,4-Trichlorobenzene	ND	836	850	102		1200	142	Q	70-130	33	Q	30
1,3,5-Trimethylbenzene	ND	836	720	87		1200	141	Q	70-130	48	Q	30
1,2,4-Trimethylbenzene	ND	836	760	91		1200	142	Q	70-130	44	Q	30
Methyl Acetate	ND	836	1000	122		1400	163	Q	51-146	29		30
Ethyl Acetate	ND	836	1000	122		1400	166	Q	70-130	31	Q	30
Acrolein	ND	836	710J	85		960J	114		70-130	29		30
Cyclohexane	ND	836	500J	59		1200	140		59-142	81	Q	30
1,4-Dioxane	ND	41800	63000	151	Q	92000	221	Q	65-136	38	Q	30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	836	550J	65		1300	154	Q	50-139	81	Q	30
p-Diethylbenzene	ND	836	710	85		1200	142	Q	70-130	50	Q	30
p-Ethyltoluene	ND	836	720	86		1200	142	Q	70-130	49	Q	30
1,2,4,5-Tetramethylbenzene	ND	836	770	92		1200	140	Q	70-130	42	Q	30
Tetrahydrofuran	ND	836	1100	129		1500	176	Q	66-130	31	Q	30
Ethyl ether	ND	836	1000	123		1500	175	Q	67-130	35	Q	30
trans-1,4-Dichloro-2-butene	ND	836	850	101		1100	135	Q	70-130	29		30
Methyl cyclohexane	52.J	836	630	76		1500	176	Q	70-130	80	Q	30
Ethyl-Tert-Butyl-Ether	ND	836	920	110		1300	156	Q	70-130	34	Q	30

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG954357-6 WG954357-7 QC Sample: L1637141-06 Client ID: RISB-28 (4-6)												
Tertiary-Amyl Methyl Ether	ND	836	1100	133	Q	1600	187	Q	70-130	34	Q	30

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>	
1,2-Dichloroethane-d4	96		95		70-130
4-Bromofluorobenzene	93		92		70-130
Dibromofluoromethane	99		101		70-130
Toluene-d8	88		87		70-130

# **INORGANICS & MISCELLANEOUS**

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-01  
**Client ID:** RISB-32 (7-8)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 13:14  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.1		%	0.100	NA	1	-	11/16/16 11:25	121,2540G	RI



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-02  
**Client ID:** RISB-27 (11-12)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 10:26  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.0		%	0.100	NA	1	-	11/16/16 11:25	121,2540G	RI



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-04  
**Client ID:** RISB-27 (7-8)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 10:07  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.0		%	0.100	NA	1	-	11/16/16 11:25	121,2540G	RI



Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

**SAMPLE RESULTS**

Lab ID: L1637141-05

Date Collected: 11/15/16 12:00

Client ID: BLIND DUP #1

Date Received: 11/15/16

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	11/16/16 11:25	121,2540G	RI





**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-06  
**Client ID:** RISB-28 (4-6)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 11:10  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	11/16/16 11:25	121,2540G	RI



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-07  
**Client ID:** RISB-35 (5-7)  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 14:37  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.7		%	0.100	NA	1	-	11/16/16 11:25	121,2540G	RI



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-08  
**Client ID:** S-14  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 14:48  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	57.2		%	0.100	NA	1	-	11/16/16 14:03	121,2540G	RI



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-09  
**Client ID:** S-12  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 14:46  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.5		%	0.100	NA	1	-	11/16/16 14:03	121,2540G	RI



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

**SAMPLE RESULTS**

**Lab ID:** L1637141-10  
**Client ID:** S-15  
**Sample Location:** BUFFALO, NY  
**Matrix:** Soil

**Date Collected:** 11/15/16 14:52  
**Date Received:** 11/15/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	52.0		%	0.100	NA	1	-	11/16/16 14:03	121,2540G	RI



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005

**Lab Number:** L1637141  
**Report Date:** 11/22/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-07 QC Batch ID: WG952844-1 QC Sample: L1637141-06 Client ID: RISB-28 (4-6)						
Solids, Total	88.0	86.9	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 08-10 QC Batch ID: WG952926-1 QC Sample: L1637058-06 Client ID: DUP Sample						
Solids, Total	83.8	83.3	%	1		20

Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 11/16/2016 13:35

## Cooler Information Custody Seal

## Cooler

A Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1637141-01A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2),NYTCL-8260H(14)
L1637141-01B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2),NYTCL-8260H(14)
L1637141-01C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2),NYTCL-8260H(14)
L1637141-01D	Plastic 120ml unpreserved	A	N/A	2.9	Y	Absent	TS(7)
L1637141-01X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1637141-01Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1637141-01Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1637141-02A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-02B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-02C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-02D	Plastic 120ml unpreserved	A	N/A	2.9	Y	Absent	TS(7)
L1637141-02X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-02Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-02Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-03A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	HOLD-8260HLW(2)
L1637141-03B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	HOLD-8260HLW(2)
L1637141-03C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	HOLD-8260HLW(2)
L1637141-03D	Plastic 2oz unpreserved for TS	A	N/A	2.9	Y	Absent	HOLD-WETCHEM()
L1637141-03X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	HOLD-8260HLW(14)
L1637141-03Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	HOLD-8260HLW(14)
L1637141-03Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	HOLD-8260HLW(14)
L1637141-04A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-04B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-04C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days



Project Name: 791 WASHINGTON STREET

Lab Number: L1637141

Project Number: 0092-016-001-005-002

Report Date: 11/22/16

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1637141-04D	Plastic 2oz unpreserved for TS	A	N/A	2.9	Y	Absent	TS(7)
L1637141-04X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-04Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-04Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-05A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-05B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-05C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-05D	Plastic 2oz unpreserved for TS	A	N/A	2.9	Y	Absent	TS(7)
L1637141-05X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-05Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-05Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06A1	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06A2	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06B1	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06B2	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06C1	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06C2	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-06D	Plastic 120ml unpreserved	A	N/A	2.9	Y	Absent	TS(7)
L1637141-06D1	Plastic 120ml unpreserved	A	N/A	2.9	Y	Absent	TS(7)
L1637141-06D2	Plastic 120ml unpreserved	A	N/A	2.9	Y	Absent	TS(7)
L1637141-06X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06X1	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06X2	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06Y1	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06Y2	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06Z1	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-06Z2	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-07A	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-07B	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-07C	5 gram Encore Sampler	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(2)
L1637141-07D	Plastic 120ml unpreserved	A	N/A	2.9	Y	Absent	TS(7)

\*Values in parentheses indicate holding time in days





**Project Name:** 791 WASHINGTON STREET**Lab Number:** L1637141**Project Number:** 0092-016-001-005-002**Report Date:** 11/22/16**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Analysis(*)</b>
L1637141-07X	Vial MeOH preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-07Y	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-07Z	Vial Water preserved split	A	N/A	2.9	Y	Absent	NYTCL-8260HLW(14)
L1637141-08A	Glass 250ml/8oz unpreserved	A	N/A	2.9	Y	Absent	TS(7),NYTCL-8260(14)
L1637141-09A	Glass 250ml/8oz unpreserved	A	N/A	2.9	Y	Absent	TS(7),NYTCL-8260(14)
L1637141-10A	Glass 250ml/8oz unpreserved	A	N/A	2.9	Y	Absent	TS(7),NYTCL-8260(14)

\*Values in parentheses indicate holding time in days

**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

#### Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
  - D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
  - E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
  - G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
  - H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
  - I** - The lower value for the two columns has been reported due to obvious interference.
  - M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
  - NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
  - P** - The RPD between the results for the two columns exceeds the method-specified criteria.
  - Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
  - R** - Analytical results are from sample re-analysis.
  - RE** - Analytical results are from sample re-extraction.
  - S** - Analytical results are from modified screening analysis.
  - J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
  - ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** 791 WASHINGTON STREET  
**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141  
**Report Date:** 11/22/16

## REFERENCES

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

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

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

### Westborough Facility

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

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

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

**EPA 300:** DW: Bromide

**EPA 6860:** NPW and SCM: Perchlorate

**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation

**EPA 9012B:** NPW: Total Cyanide

**EPA 9050A:** NPW: Specific Conductance

**SM3500:** NPW: Ferrous Iron

**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**SM5310C:** DW: Dissolved Organic Carbon

### Mansfield Facility

**SM 2540D:** TSS

**EPA 3005A** NPW

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

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** **EPA 3050B**

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

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

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

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

### Mansfield Facility:

#### Drinking Water

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

#### Non-Potable Water

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

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

**EPA 245.1 Hg.**

**SM2340B**

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



# CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

### Project Information

Project Name: Tri Co  
Project Location: Buffalo NY  
Project #: 0092-016-001-601  
Project Manager: Chris Baron  
ALPHA Quote #:

Date Rec'd in Lab: 11/16/16

ALPHA Job #: L1637191

### Report Information - Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

### Billing Information

Same as Client info PO #:

### Client Information

Client: Berkshire Egg  
Address: 2558 Hankin Turnpike  
Lancaster NY 14218  
Phone: (716) 856-0599  
Fax:

Email: BBaron@TurkeyEgg.com

These samples have been previously analyzed by Alpha

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved!)

Date Due: Time:

Other Project Specific Requirements/Comments/Detection Limits:

CAT B.

### Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS  
 TCL+CP-51 vac 5260  
 Total solids  
 TCL+CP-51 vac 5260

### SAMPLE HANDLING

Filtration \_\_\_\_\_  
 Done  
 Not needed  
 Lab to do  
 Preservation  
 Lab to do  
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS		Sample Specific Comments
		Date	Time			TCL+CP-51 vac 5260	Total solids	
37191-01	RISB-32 (7-8)	11/15/16	1314	Soil	TAB	3	1	
02	RISB-27(11-12)		1026			3	1	
03	RISB-26(3-4)		945			3	1	Hold
04	RISB-27(7-8)		1007			3	1	
05	Blin & Dup #1		1200			3	1	
06	RISB-28 (4-6) <sup>ms/msd</sup>		1110			9	3	
07	RISB-35 (5-7)		1437			3	1	
08	S-14		1448	sed			1	
09	S-12		1446				1	
10	S-15		1452				1	

Container Type E P A

Preservative A A A

Relinquished By:

Date/Time

Received By:

Date/Time

[Signature]  
[Signature]

11/15/16 17:00  
11/15/16 17:12

[Signature]  
[Signature]

11/16/16 17:12  
11/16/16 01:10

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



## ANALYTICAL REPORT

Lab Number:	L1638521
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	TRICO
Project Number:	0092-016-001
Report Date:	12/06/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

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



**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1638521-01	RIMW-9	WATER	BUFFALO, NY	11/28/16 15:57	11/29/16
L1638521-02	BLIND DUP	WATER	BUFFALO, NY	11/28/16 12:00	11/29/16
L1638521-03	RIMW-11	WATER	BUFFALO, NY	11/28/16 16:09	11/29/16
L1638521-04	RIMW-12	WATER	BUFFALO, NY	11/28/16 16:31	11/29/16
L1638521-05	TRIP BLANK	WATER	BUFFALO, NY	11/28/16 00:00	11/29/16



**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

**Case Narrative (continued)**

Report Submission

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

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Lura L Troy

Title: Technical Director/Representative

Date: 12/06/16

# ORGANICS

# VOLATILES

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

**SAMPLE RESULTS**

Lab ID: L1638521-01  
 Client ID: RIMW-9  
 Sample Location: BUFFALO, NY  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 12/02/16 15:18  
 Analyst: BD

Date Collected: 11/28/16 15:57  
 Date Received: 11/29/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,1-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	8.5		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.0		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

**SAMPLE RESULTS**

**Lab ID:** L1638521-01  
**Client ID:** RIMW-9  
**Sample Location:** BUFFALO, NY

**Date Collected:** 11/28/16 15:57  
**Date Received:** 11/29/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	3.1		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	6.7		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

**SAMPLE RESULTS**

Lab ID: L1638521-02  
 Client ID: BLIND DUP  
 Sample Location: BUFFALO, NY  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 12/02/16 15:51  
 Analyst: BD

Date Collected: 11/28/16 12:00  
 Date Received: 11/29/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	7.2		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.74		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

**SAMPLE RESULTS**

**Lab ID:** L1638521-02  
**Client ID:** BLIND DUP  
**Sample Location:** BUFFALO, NY

**Date Collected:** 11/28/16 12:00  
**Date Received:** 11/29/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	2.2	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	5.8		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130



**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

**SAMPLE RESULTS**

Lab ID: L1638521-03  
 Client ID: RIMW-11  
 Sample Location: BUFFALO, NY  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 12/02/16 16:23  
 Analyst: BD

Date Collected: 11/28/16 16:09  
 Date Received: 11/29/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,1-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.54		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

**SAMPLE RESULTS**

**Lab ID:** L1638521-03  
**Client ID:** RIMW-11  
**Sample Location:** BUFFALO, NY

**Date Collected:** 11/28/16 16:09  
**Date Received:** 11/29/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	2.8		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.0	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

**SAMPLE RESULTS**

Lab ID: L1638521-04  
 Client ID: RIMW-12  
 Sample Location: BUFFALO, NY  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 12/02/16 16:56  
 Analyst: BD

Date Collected: 11/28/16 16:31  
 Date Received: 11/29/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,1-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.34	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.33	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

**SAMPLE RESULTS**

**Lab ID:** L1638521-04  
**Client ID:** RIMW-12  
**Sample Location:** BUFFALO, NY

**Date Collected:** 11/28/16 16:31  
**Date Received:** 11/29/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	8.5		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	0.28	J	ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

**SAMPLE RESULTS**

Lab ID: L1638521-05  
 Client ID: TRIP BLANK  
 Sample Location: BUFFALO, NY  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 12/02/16 14:46  
 Analyst: BD

Date Collected: 11/28/16 00:00  
 Date Received: 11/29/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

**SAMPLE RESULTS**

**Lab ID:** L1638521-05  
**Client ID:** TRIP BLANK  
**Sample Location:** BUFFALO, NY

**Date Collected:** 11/28/16 00:00  
**Date Received:** 11/29/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8260C  
**Analytical Date:** 12/02/16 11:00  
**Analyst:** PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG957855-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 12/02/16 11:00  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG957855-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40



**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 12/02/16 11:00  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG957855-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG957855-3 WG957855-4								
Methylene chloride	100		99		70-130	1		20
1,1-Dichloroethane	99		97		70-130	2		20
Chloroform	99		96		70-130	3		20
2-Chloroethylvinyl ether	37	Q	59	Q	70-130	46	Q	20
Carbon tetrachloride	100		98		63-132	2		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	110		100		63-130	10		20
1,1,2-Trichloroethane	110		100		70-130	10		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	110		100		75-130	10		20
Trichlorofluoromethane	94		92		62-150	2		20
1,2-Dichloroethane	93		87		70-130	7		20
1,1,1-Trichloroethane	92		90		67-130	2		20
Bromodichloromethane	100		96		67-130	4		20
trans-1,3-Dichloropropene	100		94		70-130	6		20
cis-1,3-Dichloropropene	100		98		70-130	2		20
1,1-Dichloropropene	98		96		70-130	2		20
Bromoform	120		110		54-136	9		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	110		100		70-130	10		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG957855-3 WG957855-4								
Ethylbenzene	110		100		70-130	10		20
Chloromethane	96		93		64-130	3		20
Bromomethane	130		130		39-139	0		20
Vinyl chloride	93		93		55-140	0		20
Chloroethane	97		100		55-138	3		20
1,1-Dichloroethene	100		98		61-145	2		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	99		98		70-130	1		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	87		83		63-130	5		20
p/m-Xylene	110		105		70-130	5		20
o-Xylene	110		105		70-130	5		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	100		97		64-130	3		20
Acrylonitrile	100		96		70-130	4		20
Isopropyl Ether	100		100		70-130	0		20
tert-Butyl Alcohol	110		104		70-130	6		20
Styrene	110		105		70-130	5		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG957855-3 WG957855-4								
Dichlorodifluoromethane	71		69		36-147	3		20
Acetone	100		93		58-148	7		20
Carbon disulfide	87		84		51-130	4		20
2-Butanone	96		93		63-138	3		20
Vinyl acetate	92		87		70-130	6		20
4-Methyl-2-pentanone	92		90		59-130	2		20
2-Hexanone	89		87		57-130	2		20
Acrolein	93		94		40-160	1		20
Bromochloromethane	120		110		70-130	9		20
2,2-Dichloropropane	90		89		63-133	1		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	110		100		64-130	10		20
Bromobenzene	110		110		70-130	0		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	110		110		70-130	0		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	110		100		70-130	10		20
1,2-Dibromo-3-chloropropane	94		92		41-144	2		20
Hexachlorobutadiene	100		100		63-130	0		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG957855-3 WG957855-4								
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	97		96		70-130	1		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	100		99		70-130	1		20
1,2,4-Trichlorobenzene	100		98		70-130	2		20
1,3,5-Trimethylbenzene	110		100		64-130	10		20
1,2,4-Trimethylbenzene	110		100		70-130	10		20
Methyl Acetate	110		110		70-130	0		20
Ethyl Acetate	98		96		70-130	2		20
Cyclohexane	100		100		70-130	0		20
Ethyl-Tert-Butyl-Ether	86		84		70-130	2		20
Tertiary-Amyl Methyl Ether	86		83		66-130	4		20
1,4-Dioxane	120		116		56-162	3		20
Freon-113	100		110		70-130	10		20
1,4-Diethylbenzene	110		110		70-130	0		20
4-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	130		120		70-130	8		20
Tetrahydrofuran	93		90		58-130	3		20
Ethyl ether	110		100		59-134	10		20
trans-1,4-Dichloro-2-butene	97		91		70-130	6		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG957855-3 WG957855-4								
Iodomethane	59	Q	77		70-130	26	Q	20
Methyl cyclohexane	110		110		70-130	0		20

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	88		87		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	99		100		70-130

**Project Name:** TRICO  
**Project Number:** 0092-016-001

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### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

#### Cooler Information Custody Seal

##### Cooler

A Absent

#### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1638521-01A	Vial HCl preserved	A	N/A	3.8	Y	Absent	NYTCL-8260-R2(14)
L1638521-01B	Vial HCl preserved	A	N/A	3.8	Y	Absent	NYTCL-8260-R2(14)
L1638521-01C	Vial HCl preserved	A	N/A	3.8	Y	Absent	NYTCL-8260-R2(14)
L1638521-02A	Vial HCl preserved	A	N/A	3.8	Y	Absent	NYTCL-8260-R2(14)
L1638521-02B	Vial HCl preserved	A	N/A	3.8	Y	Absent	NYTCL-8260-R2(14)
L1638521-02C	Vial HCl preserved	A	N/A	3.8	Y	Absent	NYTCL-8260-R2(14)
L1638521-03A	Vial HCl preserved	A	N/A	3.8	Y	Absent	NYTCL-8260-R2(14)
L1638521-03B	Vial HCl preserved	A	N/A	3.8	Y	Absent	NYTCL-8260-R2(14)
L1638521-03C	Vial HCl preserved	A	N/A	3.8	Y	Absent	NYTCL-8260-R2(14)
L1638521-04A	Vial HCl preserved	A	N/A	3.8	Y	Absent	NYTCL-8260-R2(14)
L1638521-04B	Vial HCl preserved	A	N/A	3.8	Y	Absent	NYTCL-8260-R2(14)
L1638521-04C	Vial HCl preserved	A	N/A	3.8	Y	Absent	NYTCL-8260-R2(14)
L1638521-05A	Vial HCl preserved	A	N/A	3.8	Y	Absent	NYTCL-8260-R2(14)

\*Values in parentheses indicate holding time in days

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
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## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

**Report Format:** DU Report with 'J' Qualifiers





**Project Name:** TRICO  
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#### Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
  - D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
  - E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
  - G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
  - H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
  - I** - The lower value for the two columns has been reported due to obvious interference.
  - M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
  - NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
  - P** - The RPD between the results for the two columns exceeds the method-specified criteria.
  - Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
  - R** - Analytical results are from sample re-analysis.
  - RE** - Analytical results are from sample re-extraction.
  - S** - Analytical results are from modified screening analysis.
  - J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
  - ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
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## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

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

### Westborough Facility

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

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

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

**EPA 300:** DW: Bromide

**EPA 6860:** NPW and SCM: Perchlorate

**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation

**EPA 9012B:** NPW: Total Cyanide

**EPA 9050A:** NPW: Specific Conductance

**SM3500:** NPW: Ferrous Iron

**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**SM5310C:** DW: Dissolved Organic Carbon

### Mansfield Facility

**SM 2540D:** TSS

**EPA 3005A** NPW

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

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** **EPA 3050B**

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

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

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

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

### Mansfield Facility:

#### Drinking Water

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

#### Non-Potable Water

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

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

**EPA 245.1 Hg.**

**SM2340B**

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



# CHAIN OF CUSTODY

PAGE \_\_\_\_\_ OF \_\_\_\_\_

WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

## Project Information

Project Name: Trico  
Project Location: Buffalo NY  
Project #: 6092-016-001  
Project Manager: Chris Barron  
ALPHA Quote #:

Date Rec'd in Lab: 11/30/16

ALPHA Job #: L1638521

## Report Information - Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

## Billing Information

Same as Client info PO #:

## Client Information

Client: Turnkey Environmental  
Address: 2558 Hamburg Turnpike  
Suite 300 Lakewood NY 14218  
Phone: (716) 818-8358  
Fax: (716) 856-0583  
Email: T.barron@turnkeyllc.com

## Turn-Around Time

Standard  RUSH (only confirmed if pre-approved!)

Date Due: \_\_\_\_\_ Time: \_\_\_\_\_

## Regulatory Requirements/Report Limits

State /Fed Program \_\_\_\_\_ Criteria \_\_\_\_\_

Other Project Specific Requirements/Comments/Detection Limits:

CAT 3

ANALYSIS

TCL+CP-51 8260 576

**SAMPLE HANDLING**

Filtration \_\_\_\_\_

Done

Not needed

Lab to do

Preservation \_\_\_\_\_

Lab to do

(Please specify below)

Sample Specific Comments

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials							
		Date	Time									
38521-01	REM-W-9	11/29/16	1557	GW	TAB	3						
02	Blind Pump	↓	1200	↓	↓	3						
03	REM-W-11	↓	1669	↓	↓	3						
04	REM-W-12	↓	1631	↓	↓	3						
05	Trop Blank					1						

Container Type

Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

Chris Barron  
Turnkey Environmental

11/29/16 1108  
11/29/16 1330

John J. Barron  
John J. Barron

11/29/16 1350  
11/30/16 0900

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



## ANALYTICAL REPORT

Lab Number:	L1640158
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	TRICO
Project Number:	0092-016-001
Report Date:	12/13/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

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



**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1640158-01	RIMW-9	WATER	BUFFALO	12/09/16 13:33	12/09/16
L1640158-02	TRIP BLANK	WATER	BUFFALO	12/09/16 00:00	12/09/16

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

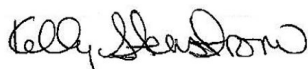
**Case Narrative (continued)**

Report Submission

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

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 12/13/16



# ORGANICS

# VOLATILES

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

**SAMPLE RESULTS**

Lab ID: L1640158-01  
 Client ID: RIMW-9  
 Sample Location: BUFFALO  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 12/11/16 21:02  
 Analyst: KD

Date Collected: 12/09/16 13:33  
 Date Received: 12/09/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	4.9		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.45	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

**SAMPLE RESULTS**

**Lab ID:** L1640158-01  
**Client ID:** RIMW-9  
**Sample Location:** BUFFALO

**Date Collected:** 12/09/16 13:33  
**Date Received:** 12/09/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

**SAMPLE RESULTS**

Lab ID: L1640158-02  
 Client ID: TRIP BLANK  
 Sample Location: BUFFALO  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 12/11/16 20:28  
 Analyst: KD

Date Collected: 12/09/16 00:00  
 Date Received: 12/09/16  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

**SAMPLE RESULTS**

**Lab ID:** L1640158-02  
**Client ID:** TRIP BLANK  
**Sample Location:** BUFFALO

**Date Collected:** 12/09/16 00:00  
**Date Received:** 12/09/16  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	99		70-130

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8260C  
**Analytical Date:** 12/11/16 17:36  
**Analyst:** KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG960125-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8260C  
**Analytical Date:** 12/11/16 17:36  
**Analyst:** KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG960125-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40



**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 12/11/16 17:36  
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG960125-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG960125-3 WG960125-4								
Methylene chloride	96		97		70-130	1		20
1,1-Dichloroethane	99		100		70-130	1		20
Chloroform	100		100		70-130	0		20
2-Chloroethylvinyl ether	70		68	Q	70-130	3		20
Carbon tetrachloride	96		97		63-132	1		20
1,2-Dichloropropane	94		94		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	98		100		70-130	2		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	97		100		67-130	3		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	81		83		70-130	2		20
cis-1,3-Dichloropropene	88		88		70-130	0		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	81		81		54-136	0		20
1,1,2,2-Tetrachloroethane	96		99		67-130	3		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG960125-3 WG960125-4								
Ethylbenzene	110		110		70-130	0		20
Chloromethane	59	Q	60	Q	64-130	2		20
Bromomethane	110		110		39-139	0		20
Vinyl chloride	90		91		55-140	1		20
Chloroethane	91		92		55-138	1		20
1,1-Dichloroethene	98		96		61-145	2		20
trans-1,2-Dichloroethene	96		100		70-130	4		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	88		88		63-130	0		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	110		110		70-130	0		20
cis-1,2-Dichloroethene	99		100		70-130	1		20
Dibromomethane	97		99		70-130	2		20
1,2,3-Trichloropropane	95		97		64-130	2		20
Acrylonitrile	100		100		70-130	0		20
Isopropyl Ether	120		110		70-130	9		20
tert-Butyl Alcohol	58	Q	66	Q	70-130	13		20
Styrene	110		110		70-130	0		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG960125-3 WG960125-4								
Dichlorodifluoromethane	75		78		36-147	4		20
Acetone	130		96		58-148	30	Q	20
Carbon disulfide	83		83		51-130	0		20
2-Butanone	100		97		63-138	3		20
Vinyl acetate	86		92		70-130	7		20
4-Methyl-2-pentanone	86		87		59-130	1		20
2-Hexanone	94		96		57-130	2		20
Acrolein	83		84		40-160	1		20
Bromochloromethane	98		100		70-130	2		20
2,2-Dichloropropane	69		72		63-133	4		20
1,2-Dibromoethane	97		97		70-130	0		20
1,3-Dichloropropane	99		100		70-130	1		20
1,1,1,2-Tetrachloroethane	97		99		64-130	2		20
Bromobenzene	99		100		70-130	1		20
n-Butylbenzene	120		120		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	110		110		70-130	0		20
o-Chlorotoluene	99		110		70-130	11		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	75		73		41-144	3		20
Hexachlorobutadiene	99		100		63-130	1		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG960125-3 WG960125-4								
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	92		98		70-130	6		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	84		91		70-130	8		20
1,2,4-Trichlorobenzene	90		92		70-130	2		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
Methyl Acetate	100		110		70-130	10		20
Ethyl Acetate	110		120		70-130	9		20
Cyclohexane	110		110		70-130	0		20
Ethyl-Tert-Butyl-Ether	81		83		70-130	2		20
Tertiary-Amyl Methyl Ether	80		82		66-130	2		20
1,4-Dioxane	<b>188</b>	Q	<b>200</b>	Q	56-162	6		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		110		70-130	0		20
p-Diethylbenzene	120		120		70-130	0		20
p-Ethyltoluene	120		120		70-130	0		20
1,2,4,5-Tetramethylbenzene	110		110		70-130	0		20
Tetrahydrofuran	96		100		58-130	4		20
Ethyl ether	97		97		59-134	0		20
trans-1,4-Dichloro-2-butene	91		92		70-130	1		20

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG960125-3 WG960125-4								
Iodomethane	50	Q	57	Q	70-130	13		20
Methyl cyclohexane	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		111		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	102		102		70-130

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

#### Cooler Information Custody Seal

##### Cooler

A Absent

#### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1640158-01A	Vial HCl preserved	A	N/A	2.9	Y	Absent	NYTCL-8260-R2(14)
L1640158-01B	Vial HCl preserved	A	N/A	2.9	Y	Absent	NYTCL-8260-R2(14)
L1640158-01C	Vial HCl preserved	A	N/A	2.9	Y	Absent	NYTCL-8260-R2(14)
L1640158-02A	Vial HCl preserved	A	N/A	2.9	Y	Absent	NYTCL-8260-R2(14)

\*Values in parentheses indicate holding time in days

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

**Report Format:** DU Report with 'J' Qualifiers





**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

#### Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
  - D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
  - E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
  - G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
  - H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
  - I** - The lower value for the two columns has been reported due to obvious interference.
  - M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
  - NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
  - P** - The RPD between the results for the two columns exceeds the method-specified criteria.
  - Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
  - R** - Analytical results are from sample re-analysis.
  - RE** - Analytical results are from sample re-extraction.
  - S** - Analytical results are from modified screening analysis.
  - J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
  - ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

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

### Westborough Facility

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

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

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

**EPA 300:** DW: Bromide

**EPA 6860:** NPW and SCM: Perchlorate

**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation

**EPA 9012B:** NPW: Total Cyanide

**EPA 9050A:** NPW: Specific Conductance

**SM3500:** NPW: Ferrous Iron

**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**SM5310C:** DW: Dissolved Organic Carbon

### Mansfield Facility

**SM 2540D:** TSS

**EPA 3005A** NPW

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

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** **EPA 3050B**

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

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

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

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

### Mansfield Facility:

#### Drinking Water

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

#### Non-Potable Water

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

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

**EPA 245.1 Hg.**

**SM2340B**

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



# APPENDIX F

## DATA USABILITY SUMMARY REPORT

# Data Validation Services

120 Cobble Creek Road P.O. Box 208  
North Creek, NY 12853

Phone 518-251-4429  
harry@frontiernet.net

July 13, 2016

Christopher Boron  
Turnkey Environmental Restoration  
2558 Hamburg Turnpike, Suite 300  
Buffalo, NY 14218

RE: Data Usability Summary Report (DUSR)  
Validation of the Former Trico Plant, 791 Washington Street Site Analytical Laboratory Data  
TAL SDG Nos. 480-100535, 480-101666, and 200-33696

Dear Mr. Boron:

Review has been completed for the data packages generated by TestAmerica Laboratories, Inc. that pertain to samples collected between 05/19/16 and 06/14/16 at the 791 Washington Street site. Two soil samples, eleven aqueous samples, and field duplicates of both matrices were processed for Target Compound List (TCL) volatiles, TCL semivolatiles, Aroclor PCBs, TCL pesticides, TCL herbicides, Target Analyte List (TAL) metals, and total cyanide. Fourteen soil samples and a field duplicate were processed for TCL semivolatiles, TCL PCBs, TAL metals, and total cyanide. Three soil samples were processed for TCL semivolatiles, Aroclor PCBs, TCL pesticides, TCL herbicides, Target Analyte List (TAL) metals, and total cyanide. Two soil samples were processed for TCL volatiles, TCL semivolatiles, Aroclor PCBs, TCL herbicides, Target Analyte List (TAL) metals, and total cyanide. One soil sample was processed for TCL volatiles. Six of the aqueous samples were also processed for dissolved (filtered) metals. Analytical methodologies are those of the USEPA SW846 or TO-15.

The data package submitted by the laboratory contains full deliverables for validation, but this DUSR report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, in accordance with the project QAPP, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodologies. The following items were reviewed:

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

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

**In summary**, most results are usable either as reported or with minor qualification or edit. However, the total cyanide results in one soil sample and its field duplicate are rejected due to inconsistent results. All dissolved metals results qualified as estimated due to laboratory filtration

Accuracy, precision, data completeness, representativeness, and the analytical method comparability are acceptable.

Copies of the client sample identifications are attached to this text, and should be reviewed in conjunction with this report. Also included are the laboratory EQUIS files, with recommended qualifiers/edits applied in red when available. No additional review or manipulation of the EQUIS files was performed during validation.

**Chain-of-Custody/Sample Receipt**

Some of the custody form entries do not correctly reflect the canister tag entries. The variances included the end date, time, and canister ID number. These issues were resolved at sample receipt.

R1 SB-16(0-5) was received by the laboratory, but not entered on the custody form.

**Blind Field Duplicates**

Blind field duplicate evaluations were performed on R1 MW-10, R1 SB-11 6-8, and R1 SB-19(2-4). Correlations are within validation guidelines, with the exception of that for total cyanide in R1 SB-19(2-4), which shows detection at 15.9 mg/kg in the parent sample and no detection at 1.2 mg/kg in the duplicate. Due to the extent of the variance, the result for that analyte in the parent sample and its duplicate are rejected, and not usable.

**TCL Volatile Analyses by USEPA 8260C**

The matrix spikes of R1-MW-4(0-2 and R1-MW-7 show the following outlying recoveries in both spikes. Results for the listed analytes are qualified as estimated in the indicated parent sample:

<u>Parent Sample</u>	<u>Analyte</u>	<u>Outlying % Recoveries</u>
RI MW-4 (0-2)	1,1,2,2-tetrachloroethane	63,73
	1,1,2-trichloroethane	71,77
	1,2,4-trichlorobenzene	50,61
	1,2-dibromoethane	67,77
	cis-1,2-dichloroethene	74,68
	styrene	70,78
	trans-1,2-dichloroethene	69,69
RI MW-7	trichloroethene	47,65
	trans-1,3-dichloroethene	31,47

The detections of acetone and methylene chloride in the soil samples are considered external contamination and edited to non-detection due to presence in the associated method blanks.

Results initially reported with the laboratory “E” flag are derived from the dilution analyses of the samples.

Calibration standards show acceptable responses with the exceptions of those for 1,1,2-trichloro-1,2,2-trifluoroethane and cyclohexane (23%D and 26%D) in the calibration associated with sample BASEMENT SURFACE WATER SAMPLE. The results for those compounds are to be qualified as estimated in that sample.

Holding times were met. Surrogate and internal standard recoveries are compliant.

Some of the samples were processed at dilution due to foaming when undiluted.

**TCL Semivolatiles by USEPA 8270D**

The soil samples collected 05/23/16 and 05/24/16 were reextracted due to outlying responses for acetophenone in the initial associated LCS. The reextraction results are used due to improved matrix spikes recoveries in that batch. However, results for 3-nitroaniline and 4-chloroaniline are qualified as estimated in those samples due to low recoveries (55% and 43%) in that associated LCS.

The detection of benzaldehyde in BASEMENT SURFACE WATER SAMPLE is considered external contamination and edited to reflect nondetection due to presence in the associated method blank.

Matrix spikes of R1 MW-7, R1 MW-6(4-7), R1 SB-17(4-6) (RE), and R1 MW-5(6-8) show acceptable recoveries and correlations, with the following exceptions, results for which are qualified as estimated in the indicated parent samples:

<u>Parent Sample</u>	<u>Analyte</u>	<u>Outlying % Recoveries</u>	<u>Outlying %RPD</u>
RI MW-6 (4-7)	benzo(a)anthracene	153	65
	benzo(a)pyrene	143	57
	benzo(b)fluoranthene	150	68
	chrysene	150	65
	fluoranthene	262,58	99
	phenanthrene	240,59	96
	pyrene	230	93
RI MW-7	3,3'-dichlorobenzidine	27,25	
	3-nitroaniline	53,53	
	4-chloroaniline	40,41	
	4-nitroaniline	53	27

Holding times were met. Surrogate and internal standard recoveries are compliant.



Calibration standards show acceptable responses, with the exception of those for benzaldehyde (51%D to 63%D) in the calibration associated with the following samples. The results for that compound in these samples have been qualified as estimated in value: RI MW-4(0-2), RI MW-3 (0-2), RI MW-6 (4-7), RI SB-12(2-4), RI SB-13 (1-3), RI SB-15 (6-8), RI MW-2M(8-10), RI SB-17 (4-6), RI SB-18 (2-4), RI SB-19M(2-4), BLIND DUP, RI SB-20 (4-6), RI SB-21 (6-8), RI SB-22(8-10), RI SB-23 (2-4), RI SB-24 (4-6), RI MW-5 (6-8), BLIND DUP 2, RI MW-8 (0-2), RI MW-7 (2-4), RI MW-9 (0-2), RI MW-10 (2-4), and RI SB-16 (0-5)

Certain of the samples were processed at dilution due to what was merely described as “the nature of the matrix.” This resulted in elevated reporting limits.

Some of the aqueous samples were decanted prior to processing.

#### **Aroclor PCBs, TCL Pesticides, and TCL Herbicides by USEPA methods 8051, 8081B and 8082**

The detections of 4,4'-DDD in R1 MW-2 and d-BHC in R1 MW-3 exhibit elevated dual column quantitative correlations. Those detections have therefore been qualified as estimated.

The reported detections of Aroclor 1248 in BASEMENT SURFACE WATER SAMPLE and R1 MW-3 reflect responses that are at the MDL level on at least one of the two analytical systems. Inspection of the chromatograms shows poor signal to noise ratio and integration, and those detections have been edited to reflect non-detection at the reporting limit.

The detection of g-BHC in BASEMENT SURFACE WATER SAMPLE is considered external contamination and edited to reflect nondetection due to presence in the associated method blank.

Calibration standard responses are within required limits, with the exception of those for a-BHC, b-BHC, g-BHC, and methoxychlor (22%D to 23%D) in the calibration associated with BASEMENT SURFACE WATER SAMPLE. The results for those four compounds have been qualified as estimated in that sample.

The pesticide, herbicide, and Aroclor 1016/1260 matrix spikes of R1 MW-7 and R1 SB-17(4-6), and the Aroclor 1016/1260 matrix spikes of R1 MW-5(6-8) and R1-MW-6(4-7), show recoveries and duplicate correlations that are within validation guidelines.

Holding times were met, and surrogate recoveries are compliant.

Some of the pesticide and herbicide chromatograms show significant responses from either the matrix or as a result of the chemical (herbicide) preparation process. Because the raw data integration output does not include those responses, the reported non-detected results cannot be independently verified, and reflects only the analysts' review.

#### **TAL Metals/Cyanide Analyses by USEPA 6010C, 7470A, 7471A, and 9012**

The metals matrix spike and duplicate evaluations were performed on BASEMENT SURFACE WATER SAMPLE, R1 MW-9(0-2) (selenium and zinc only), R1 MW-7 (total and dissolved), R1 SB-17(4-6), and R1 MW-6(4-7). The outliers warranting qualification are noted in the following table, and have been qualified as estimated in the indicated parent samples:

<u>Parent Sample</u>	<u>Element</u>	<u>Outlying % Recoveries</u>	<u>Outlying %RPD</u>
RI SB-17 (4-6)	aluminum	49,665	89
	barium	52,252	76
	antimony	48	44
	iron		56
	potassium	321	79
RI MW-6 (4-7)	aluminum	269,211	
	iron	174,153	
	potassium	158,133	
RI MW-7-total	barium	174	22
	zinc	164	27

The serial dilution evaluations of R1 SB-17(4-6) and R1 MW-6(4-7) show the following elevated correlations, indicating a matrix effect. Those elements have been qualified as estimated, with a low bias, in the indicated parent samples:

<u>Parent Sample</u>	<u>Element</u>	<u>%Difference</u>
RI SB-17 (4-6)	barium	16
	calcium	16
	chromium	19
	iron	17
	lead	20
	manganese	18
	zinc	22
RI MW-6 (4-7)	aluminum	31
	barium	60
	calcium	23
	chromium	27
	copper	16
	lead	34
	iron	23

Total cyanide matrix spike and/or duplicates of R1 SB-17(4-6), R1 SB-24(4-6), R1 MW-6(4-7), R1 SB-12(2-4), R1 SB-23(2-4), R1 MW-3, and R1 MW-7 show recoveries and/or correlations within validation guidelines. The lone matrix spike of R1 MW-8(0-2) shows a low recovery of 82%, and that result has been qualified as estimated in value.

The filtration and subsequent preservation of the samples was conducted after sample receipt. The results for the dissolved fractions are therefore qualified as estimated due to the delayed preservation.

ICP serial dilution evaluations performed on BASEMENT SURFACE WATER SAMPLE, R1 MW-9(0-2) (selenium and zinc only), R1 MW-7 (total and dissolved) show acceptable correlations.

Calibration and low level standards show compliant recoveries. The blanks show no contamination affecting sample reported results.

Sample total and dissolved fraction concentrations correlate well, with the exception of the increase in sodium concentration in the filtered fraction of R1-MW-4. The results for that element have been qualified in the parent sample and its duplicate.

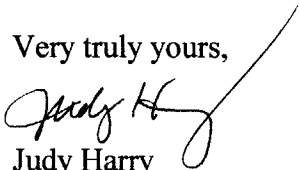
**Volatile Analyses by USEPA TO-15**

Detections of 1,2,4-trichlorobenzene in SV-12 and SV-2 are considered external contamination and edited to reflect non-detection due to presence in the associated method blank.

Holding times and instrument tunes meet requirements. Internal standard responses are compliant. Initial and continuing calibration standard responses fall within validation guidelines.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

Att: Validation Qualifier Definitions  
Client and Laboratory Sample IDs  
Qualified Client EQUIS EDDs

## VALIDATION DATA QUALIFIER DEFINITIONS

- U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J** The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- J-** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- J+** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- UJ** The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
- NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R** The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
- EMPC** The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

## **Client and Laboratory Sample IDs**

# Sample Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-100535-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-100535-1	BASEMENT SURFACE WATER SAMPLE	Water	05/20/16 15:00	05/23/16 13:50
480-100681-1	RI SB-12 (2-4)	Solid	05/23/16 10:30	05/25/16 16:30
480-100681-2	RI SB-13 (1-3)	Solid	05/23/16 13:00	05/25/16 16:30
480-100681-3	RI SB-15 (6-8)	Solid	05/23/16 12:00	05/25/16 16:30
480-100681-4	RI MW-2 (8-10)	Solid	05/23/16 14:20	05/25/16 16:30
480-100681-5	RI SB-17 (4-6)	Solid	05/24/16 10:30	05/25/16 16:30
480-100681-6	RI SB-18 (2-4)	Solid	05/24/16 11:00	05/25/16 16:30
480-100681-7	RI SB-19 (2-4)	Solid	05/24/16 12:00	05/25/16 16:30
480-100681-8	BLIND DUP	Solid	05/24/16 08:00	05/25/16 16:30
480-100681-9	RI SB-20 (4-6)	Solid	05/24/16 12:30	05/25/16 16:30
480-100681-10	RI SB-21 (6-8)	Solid	05/24/16 13:40	05/25/16 16:30
480-100681-11	RI SB-22 (8-10)	Solid	05/24/16 12:40	05/25/16 16:30
480-100681-12	RI SB-23 (2-4)	Solid	05/24/16 14:30	05/25/16 16:30
480-100681-13	RI SB-24 (4-6)	Solid	05/24/16 15:00	05/25/16 16:30
480-100685-1	RI MW-4 (0-2)	Solid	05/25/16 09:45	05/25/16 16:30
480-100685-2	RI MW-3 (0-2)	Solid	05/25/16 10:30	05/25/16 16:30
480-100685-3	RI MW-6 (4-7)	Solid	05/25/16 13:30	05/25/16 16:30
480-100861-1	RI MW-2 (0-2)	Solid	05/27/16 11:00	05/27/16 17:30
480-100861-2	RI MW-5 (6-8)	Solid	05/26/16 09:30	05/27/16 17:30
480-100861-3	BLIND DUP 2	Solid	05/26/16 08:00	05/27/16 17:30
480-100861-4	RI MW-8 (0-2)	Solid	05/26/16 09:45	05/27/16 17:30
480-100861-5	RI MW-7 (2-4)	Solid	05/26/16 11:30	05/27/16 17:30
480-100861-6	RI MW-9 (0-2)	Solid	05/26/16 15:00	05/27/16 17:30
480-100861-7	RI MW-10 (2-4)	Solid	05/26/16 16:45	05/27/16 17:30
480-100861-8	RI SB-16 (0-5)	Solid	05/27/16 14:00	05/27/16 17:30

# Sample Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 480-101666-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-101666-1	R1 MW-3	Water	06/14/16 13:00	06/15/16 14:05
480-101666-2	R1 MW-10	Water	06/14/16 11:05	06/15/16 14:05
480-101666-3	R1 MW-8	Water	06/14/16 15:55	06/15/16 14:05
480-101666-4	BLIND DUP	Water	06/14/16 08:00	06/15/16 14:05
480-101666-5	R1 MW-6	Water	06/14/16 17:00	06/15/16 14:05
480-101666-6	R1 MW-9	Water	06/14/16 12:20	06/15/16 14:05
480-101666-7	R1 MW-7	Water	06/14/16 14:15	06/15/16 14:05
480-101666-8	R1 MW-2	Water	06/14/16 18:05	06/15/16 14:05
480-101666-9	R1 MW-1	Water	06/14/16 18:23	06/15/16 14:05
480-101666-10	R1 MW-4	Water	06/14/16 14:48	06/15/16 14:05
480-101666-11	R1 MW-5	Water	06/14/16 16:05	06/15/16 14:05
480-101666-13	TRIP BLANK	Water	06/14/16 18:05	06/15/16 14:05

# Sample Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 791 Washington St., Buffalo

TestAmerica Job ID: 200-33696-1

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Matrix</b>	<b>Collected</b>	<b>Received</b>
200-33696-1	SV-1	Air	05/20/16 10:24	05/25/16 10:15
200-33696-2	SV-2	Air	05/20/16 10:45	05/25/16 10:15
200-33696-3	SV-3	Air	05/20/16 11:12	05/25/16 10:15
200-33696-4	SV-4	Air	05/20/16 11:08	05/25/16 10:15
200-33696-5	SV-5	Air	05/20/16 10:52	05/25/16 10:15
200-33696-6	SV-6	Air	05/20/16 11:00	05/25/16 10:15
200-33696-7	SV-7	Air	05/20/16 11:31	05/25/16 10:15
200-33696-8	IA-1	Air	05/20/16 11:10	05/25/16 10:15
200-33696-9	IA-2	Air	05/20/16 11:05	05/25/16 10:15
200-33696-10	OA-1	Air	05/20/16 11:22	05/25/16 10:15



# Data Validation Services

120 Cobble Creek Road P.O. Box 208  
North Creek, NY 12853

Phone 518-251-4429  
harry@frontiernet.net

January 13, 2017

Christopher Boron  
Turnkey Environmental Restoration  
2558 Hamburg Turnpike, Suite 300  
Buffalo, NY 14218

RE: Data Usability Summary Report (DUSR)  
Validation of the Former Trico, 791 Washington Street Site Analytical Laboratory Data  
Alpha Analytical SDG Nos. L1637141, L1638521, and L1640158

Dear Mr. Boron:

Review has been completed for the data packages generated by Alpha Analytical that pertain to samples collected between 11/15/16 and 12/09/16 at the 791 Washington Street site. Nine soil samples, four aqueous samples, and a field duplicate of each matrix were processed for Target Compound List (TCL) and CP-51 volatiles by SW846 method EPA 8260C.

The data package submitted by the laboratory contains full deliverables for validation, but this DUSR report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, in accordance with the project QAPP, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodologies. The following items were reviewed:

- \* Data Completeness
- \* Case Narrative
- \* Custody Documentation
- \* Holding Times
- \* Surrogate and Internal Standard Recoveries
- \* Matrix Spike Recoveries and Duplicate Correlations
- \* Blind Field Duplicate Correlations
- \* Method Blanks
- \* Laboratory Control Sample (LCS)
- \* Instrumental Tunes
- \* Calibration Standards
- \* Method Compliance
- \* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

**In summary**, most results are usable either as reported or with minor qualification or edit. However, the results for 1,4-dioxane are not usable due to poor response inherent in the methodology.

Data completeness, representativeness, and the analytical method comparability are acceptable. Matrix accuracy and precision were not thoroughly evaluated with this round of samples.

Copies of the client sample identifications are attached to this text, and should be reviewed in conjunction with this report. Two samples were submitted and reported with the identification of RIMW-9. They are distinguished parenthetically in this report by the month of collection.

Also attached are the laboratory EQUIS files, with recommended qualifiers/edits applied in red when available. No additional review or manipulation of the EQUIS file was performed during validation.

### **Blind Field Duplicates**

Blind field duplicate evaluations were performed on RIMW-9 (December) and RISB-27(7-8). Correlations are within validation guidelines.

### **TCL and CP-51 Volatile Analyses by USEPA 8260C**

S-15 showed consistent low internal standard d4-1,4-dichlorobenzene recoveries and elevated surrogate recoveries. All detected results and the results for the fourteen compounds associated with that internal standard have been qualified as estimated in value.

The detections of methylene chloride in the soil samples are considered external contamination and edited to non-detection due to presence in the associated method blanks.

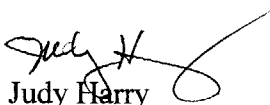
The medium level matrix spike of RISB-28(4-6) shows acceptable recoveries. The spike duplicate shows consistently elevated recoveries, resulting in elevated duplicate correlations. The surrogate standard recoveries do not show the same variance, and therefore a processing anomaly is suspected. No qualifications have been made to the parent sample data. No low level soil or aqueous matrix spikes were processed.

The results for 1,4-dioxane are rejected due to very poor relative instrument response. Other calibration standards show acceptable responses with the exception of that for chloromethane (41%D) in the standard associated with RIMW-9 (December); the result for that compound is qualified as estimated in that sample. Chloromethane also produced low recoveries (59% and 60%) in the associated LCSs.

Some of the samples were processed at dilution due to target analyte concentrations. This results in elevated reporting limits.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

  
Judy Harry

Att: Validation Qualifier Definitions  
Client and Laboratory Sample IDs  
Qualified Client EQUIS EDDs

## VALIDATION DATA QUALIFIER DEFINITIONS

- U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J** The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- J-** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- J+** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- UJ** The analyte analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
- NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R** The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
- EMPC** The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

**CLIENT and LABORATORY SAMPLE IDs**

**Project Name:** 791 WASHINGTON STREET

**Project Number:** 0092-016-001-005-002

**Lab Number:** L1637141

**Report Date:** 11/22/16

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1637141-01	RISB-32 (7-8)	SOIL	BUFFALO, NY	11/15/16 13:14	11/15/16
L1637141-02	RISB-27 (11-12)	SOIL	BUFFALO, NY	11/15/16 10:26	11/15/16
L1637141-03	RISB-26 (3-4)	SOIL	BUFFALO, NY	11/15/16 09:45	11/15/16
L1637141-04	RISB-27 (7-8)	SOIL	BUFFALO, NY	11/15/16 10:07	11/15/16
L1637141-05	BLIND DUP #1	SOIL	BUFFALO, NY	11/15/16 12:00	11/15/16
L1637141-06	RISB-28 (4-6)	SOIL	BUFFALO, NY	11/15/16 11:10	11/15/16
L1637141-07	RISB-35 (5-7)	SOIL	BUFFALO, NY	11/15/16 14:37	11/15/16
L1637141-08	S-14	SOIL	BUFFALO, NY	11/15/16 14:48	11/15/16
L1637141-09	S-12	SOIL	BUFFALO, NY	11/15/16 14:46	11/15/16
L1637141-10	S-15	SOIL	BUFFALO, NY	11/15/16 14:52	11/15/16

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1638521  
**Report Date:** 12/06/16

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1638521-01	RIMW-9	WATER	BUFFALO, NY	11/28/16 15:57	11/29/16
L1638521-02	BLIND DUP	WATER	BUFFALO, NY	11/28/16 12:00	11/29/16
L1638521-03	RIMW-11	WATER	BUFFALO, NY	11/28/16 16:09	11/29/16
L1638521-04	RIMW-12	WATER	BUFFALO, NY	11/28/16 16:31	11/29/16
L1638521-05	TRIP BLANK	WATER	BUFFALO, NY	11/28/16 00:00	11/29/16

**Project Name:** TRICO  
**Project Number:** 0092-016-001

**Lab Number:** L1640158  
**Report Date:** 12/13/16

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1640158-01	RIMW-9	WATER	BUFFALO	12/09/16 13:33	12/09/16
L1640158-02	TRIP BLANK	WATER	BUFFALO	12/09/16 00:00	12/09/16



# APPENDIX G

## FISH AND WILDLIFE RESOURCE IMPACT ANALYSIS DECISION KEY

<b>Appendix 3C Fish and Wildlife Resources Impact Analysis Decision Key</b>		If YES Go to:	If NO Go to:
1.	Is the site or area of concern a discharge or spill event?	13	2
2.	Is the site or area of concern a point source of contamination to the groundwater which will be prevented from discharging to surface water? Soil contamination is not widespread, or if widespread, is confined under buildings and paved areas.	13	3
3.	Is the site and all adjacent property a developed area with buildings, paved surfaces and little or no vegetation?	4	9
4.	Does the site contain habitat of an endangered, threatened or special concern species?	Section 3.10.1	5
5.	Has the contamination gone off-site?	6	14
6.	Is there any discharge or erosion of contamination to surface water or the potential for discharge or erosion of contamination?	7	14
7.	Are the site contaminants PCBs, pesticides or other persistent, bioaccumulable substances?	Section 3.10.1	8
8.	Does contamination exist at concentrations that could exceed ecological impact SCGs or be toxic to aquatic life if discharged to surface water?	Section 3.10.1	14
9.	Does the site or any adjacent or downgradient property contain any of the following resources? i. Any endangered, threatened or special concern species or rare plants or their habitat ii. Any DEC designated significant habitats or rare NYS Ecological Communities iii. Tidal or freshwater wetlands iv. Stream, creek or river v. Pond, lake, lagoon vi. Drainage ditch or channel vii. Other surface water feature viii. Other marine or freshwater habitat ix. Forest x. Grassland or grassy field xi. Parkland or woodland xii. Shrubby area xiii. Urban wildlife habitat xiv. Other terrestrial habitat	11	10
10.	Is the lack of resources due to the contamination?	3.10.1	14
11.	Is the contamination a localized source which has not migrated and will not migrate from the source to impact any on-site or off-site resources?	14	12
12.	Does the site have widespread surface soil contamination that is not confined under and around buildings or paved areas?	Section 3.10.1	12
13.	Does the contamination at the site or area of concern have the potential to migrate to, erode into or otherwise impact any on-site or off-site habitat of endangered, threatened or special concern species or other fish and wildlife resource? (See #9 for list of potential resources. Contact DEC for information regarding endangered species.)	Section 3.10.1	14
14.	No Fish and Wildlife Resources Impact Analysis needed.		