

**ELLIOTT DITCH
REACHES 1 – 3
FIELD SAMPLING REPORT**

**ARCONIC LAFAYETTE OPERATIONS
3131 EAST MAIN STREET
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1.0 INTRODUCTION

Arconic Inc. (Arconic), formerly Alcoa Inc. (Alcoa), retained Civil & Environmental Consultants, Inc. (CEC) to implement the Elliott Ditch Field Sampling Plan (FSP, Project) prepared by TetraTech CES and dated February 2, 2016. Two targeted sampling events were conducted after implementation of the FSP to collect additional data within the first 1.59 miles of Elliott Ditch. This assessed segment of Elliott Ditch includes the first three of eight reaches identified in the Elliott Ditch Geomorphic Surface Mapping and Historic Data Review (geomorphic study) prepared by TetraTech CES. The sampling study incorporated these three reaches because of their similar geomorphic nature caused by anthropogenic activities to control storm water drainage. Elliott Ditch is under the jurisdiction of the Tippecanoe County Drainage Board as a regulated drainage feature until it crosses 9th Street. The Tippecanoe County Drainage Board maintains a 75-foot easement on both sides of the ditch for maintenance activities.

As noted, this assessment focused on the first three of eight reaches. The general geomorphic nature of these three reaches, as documented in geomorphic study, is as follows:

- Reach 1 of Elliott Ditch is characterized by a relatively straight channel, steep valley walls, and no stream terraces. The geomorphology study showed a relatively shallow gradient of 0.4 feet/mile. Some erosion was observed occurring along the channel banks and immediately downstream of the outfall, deposition of relatively fine-grained sediment is occurring in pooled areas within the stream.
- Reach 2 of Elliott Ditch is characterized by a straight channel with a steeper channel gradient of approximately 8 feet/mile. The north side of the channel is upland area and the south side is a preserved T-4 terrace. Sediment deposition occurs in this reach on the T-4 terrace after large flood events and in-channel deposition is associated with pools.
- Reach 3 has a relatively straight channel with only minor meandering. The channel banks are steeper than in Reach 2, but the channel gradient is similar at 8 feet/mile. Elliott Ditch has a deeply incised channel and steep channel banks within this reach. Natural T-6 and T-7 terraces are preserved adjacent to both sides of the ditch. Additionally, a T-5 terrace is present on the north side of the ditch at the downstream end of the reach. Deposition in the overbank area is unlikely except for large flood events and in-channel deposition is limited to the pool areas.

The investigation of soils and sediments was performed in accordance with the regulatory-approved FSP, as prepared by TetraTech CES and dated February 2, 2016. This report presents our observations, findings, and discussion regarding the Project.

1.1 SAMPLING SCOPE

The FSP and two subsequent, targeted sampling events were conducted within and along the first 1.59 miles of Elliott Ditch. Provided in the following is a summary of the field activities performed in association with each assessment and the sample locations are shown on Figures 3, 3A, 3B, 3C, 4, 4A, and 4B.

FSP Sampling Event

- Sediment poling and surveying;
- Sediment boring installation and sampling at 13 locations; and,
- Soil boring installation and sampling at 33 locations.

February 2018 Targeted Assessment

- Sediment boring installation and sampling at one location; and,
- Soil boring installation and sampling at 11 locations, including boring at one previously assessed location.

June 2018 Targeted Assessment

- Soil boring installation and sampling at 17 locations, including boring at one previously assessed location.

1.2 FACILITY DESCRIPTION

The Arconic Lafayette Operations (Facility) reside at 3131 East Main Street in Fairfield Township, Tippecanoe County, Lafayette, Indiana, and produces aluminum extrusions serving an international market. The extrusions include tube, aerospace components, and oil and gas drilling products. Arconic began production at the Facility in 1937 and the Facility currently includes roughly 2.3 million square feet of operations on 172 acres. Topographic relief in the area of the

Facility ranges from approximately 650 to 670 feet above mean sea level (MSL). The locations of the Facility and Elliott Ditch are shown on Figure 1.

1.3 DESCRIPTION OF ELLIOTT DITCH

Elliott Ditch is a tributary to Wea Creek, which is a tributary to the Wabash River, just downstream of Lafayette, Indiana. Please refer to Figure 1 for the location of Elliott Ditch and associated streams. In addition to its base flow, Elliott Ditch receives wastewater and storm water discharges from local industrial and residential sources, including from a National Pollution Discharge Elimination System (NPDES) permitted outfall (Outfall 001) from the Facility. Outfall 001 is situated approximately 1-mile south of the Facility. Discharge from the outfall includes treated sanitary and industrial process water, as well as storm water. The distance from the outfall to the Elliott Ditch and Wea Creek confluence is approximately 4.1 miles and to the Wabash River is approximately 7.5 miles. The geomorphic surface mapping completed for Elliott Ditch by TetraTech CES, as documented in the geomorphic study, suggests that Elliott Ditch has eight distinct reaches (erosional/depositional regimes):

- Reach 1: Outfall 001 to downstream of the railroad bridge
- Reach 2: The railroad bridge to the South 18th Street Bridge
- Reach 3: South 18th Street Bridge to upstream of the 9th Street Bridge
- Reach 4: South 9th Street Bridge to north of Brookside Drive
- Reach 5: North of Brookside Drive to downstream of Poland Hill Road
- Reach 6: Downstream of Poland Hill Road to downstream of Old Romney Road Bridge
- Reach 7: Downstream of Old Romney Road Bridge to upstream of US Hwy 231 South Bridge
- Reach 8: Upstream of US Hwy 231 South to the Elliott Ditch – Wea Creek confluence

This Field Sampling Report is focused on the portion from the outfall (Milepost 0.0) to Milepost 1.59 or Reaches 1 through 3, which includes the channelized portion of Elliott Ditch. Please refer to Figure 2 for the portion of Elliott Ditch included in this assessment.

1.4 TIMELINE OF RELEVANT EVENTS

Elliott Ditch has been subject to previous assessments and remediation due to evidence of PCBs having been released through Outfall 001. Samples of fish, water, and sediment collected in the 1980s from Elliott Ditch and Wea Creek indicate that PCBs are present in these media. In response to these findings, Arconic conducted in-stream remediation of sediment and instituted an enhanced wastewater treatment program for targeted removal of PCBs. In 1990, Arconic excavated sediments in the Elliott Ditch starting 100 feet upstream of Outfall 001 and ending at the 18th Street Bridge. In the late 1990s, Arconic instituted a wastewater management program, which significantly reduced flow to Outfall 001 through removal of non-contact cooling water. Arconic also began to treat its dry weather discharge to Elliott Ditch using canister filter systems in January 2000. In 2007, Arconic developed and implemented a Natural Media Filtration treatment process. The combination of these actions have reduced PCB loadings from Outfall 001 by at least tenfold. Provided in the following is a brief chronological summary of the investigations that led to the preparation and implementation of the FSP and subsequent targeted assessments.

- 1980s – Sampling of sediment, water, and fish by Indiana Department of Environmental (IDEM)
- Late 1980s – Sampling of sediment, water, and fish by Arconic
- Late 1990-Early 1991 – Arconic removed sediment starting 100 feet upstream of Outfall 001 and ending at the 18th Street Bridge
- Late 1990s through 2008 – Arconic developed and implemented changes to its wastewater management program
- 1999 – Comprehensive sediment and fish sampling by IDEM
- 1999-2002 – IDEM/U.S. Environmental Protection Agency (USEPA) sued Arconic under Clean Water Act (CWA) for discharges in excess of NPDES permit limits
- 2002 – USEPA and Arconic entered into Consent Decree (CD), which required, among other things, investigation of Elliott Ditch
- 2003/4 – Arconic performed Phase I, Phase II, and Phase III of Elliott Ditch investigation, which included sediment, water, and fish sampling
- 2008 – Arconic performed Phase IV of the Elliott Ditch investigation, which included fish and water sampling, and submitted a Report to USEPA
- 2010 – Arconic performed Phase V-A of Elliott Ditch investigation, which included sediment sampling

- 2011 – Arconic performed a monitoring program, which included sediment and water sampling, for a soluble oil spill
- 2012 – Arconic Phase V-B of Elliott Ditch investigation planned, which included fish tissue and water sampling
- 2012/2013 – Arconic performed the Phase V-B investigation of Elliott Ditch to assess fish tissue and water for PCB impacts
- 2014/2015 – Arconic performed a geomorphologic mapping study of Elliott Ditch
- 2016 – Arconic prepared a FSP to collect sediment and soil samples to further assess PCB impacts to the ditch

1.5 REGULATORY CONSIDERATIONS

1.5.1 Consent Decree and RCRA Corrective Action

Investigations of Elliott Ditch from the early 2000s through 2012 were conducted per the Consent Decree (CD) between Arconic and USEPA. The CD is associated with Clean Water Act violations and is in the process of being closed. The Facility is subject to Resource Conservation and Recovery Act (RCRA) Corrective Action (CA) and is in the process of implementing a RCRA Facility Investigation (RFI). This Project is being performed as part of the RCRA CA process.

1.5.2 PCB Source and Release Date

Arconic has performed a detailed review of historic operations at the Facility to determine the source and release date of the PCB impacts identified in Elliott Ditch. Provided in the following is a summary of the review results. Please note that Alcoa is used interchangeably with Arconic in this section of the report.

To reduce the potential for a recurrence of an April 1955 petroleum oil fire at an Alcoa facility in Texas, Alcoa issued guidance to facility managers for the replacement of petroleum-based oils with non-flammable fluids. Recommended non-flammable fluids included Monsanto's Pydraul-branded fluids known to contain PCBs. The Lafayette Operations (Facility) followed this guidance and changed some of its petroleum-based oils to Pydraul-branded fluids. In the late-1950s and

1960s, the Facility documented leaks of equipment containing non-flammable fluids including locations that flowed to the industrial storm sewer and to the sewage treatment plant.

As a response to a 1970 bulletin from Monsanto to facility consumers on the potential environmental effects of Pydraul-branded fluids, the Facility immediately began to discontinue use of certain oils and implement policy to prevent discharge of the oils to the sewers. More specifically, in 1972, the Facility implemented a program to change several of the fire-resistant fluids from chlorinated bi-phenyl-based fluids to ester-based fluids. Later correspondence indicated that by 1974, all PCB-containing Pydraul had been eliminated from Facility reserves. Starting in the summer of 1978, the Facility initiated an inventory, comprehensive testing, and fluid replacement program for all equipment previously containing PCB-based fluids and equipment potentially contaminated by PCB-based fluids. In April 1979, the Alcoa Technical Center completed the first of two wastewater characterization studies identifying PCBs in the industrial sewer sediment, wastewater treatment plant sludge, and industrial influent.

In September 1979, the Facility notified the Stream Pollution Control Board of the presence of PCBs in confirmatory samples collected from the sewage treatment plant sludge. On December 7, 1979, the Indiana State Board of Health (ISBH) collected a sample from the Outfall 001 discharge, which according to the ISBH, “confirmed the presence of PCB in the discharge”. The confirmation is believed to be a result of documented leaks from equipment containing non-flammable fluids including locations that flowed to the industrial storm sewer and to the sewage treatment plant.

In summary, based on the results of the record search for the Facility the following conclusions can be reached:

- In the 1970s, the Facility implemented a program to rid equipment of containing PCB-containing fluids and PCB-contaminated materials (sludges, press waters, oils). Stores of PCB-containing Pydraul non-flammable fluid were eliminated from Facility reserves by 1974;
- A release occurred prior to April 18, 1978. No spills from equipment with PCB-containing fluids that resulted in a discharge to Elliott Ditch were documented after April 18, 1978;
- The source concentration is believed to be greater than 50 mg/kg and included predominantly Aroclor 1248; and,

- Based on the facts presented above, any exceedance of the NPDES permit and/or discharge of impacted media to surface waters would be derived from pre-April 18, 1978 original release.

1.6 INVESTIGATION OBJECTIVE AND STRATEGY

Per the FSP, the objective of this Project is to support the development of a conceptual model to understand the distribution of PCB impacts in Elliott Ditch and the adjacent floodplain caused by historical releases from Outfall 001. This objective has been met by poling and the collection of GPS readings to define the horizontal and vertical extent of fine-grained deposits in-channel, sediment sampling to characterize its profile, soil sampling to characterize its profile, and sediment and soil analytical testing to assess the presence/absence and concentration of PCBs. The additional targeted investigations conducted after implementation of the scope of the FSP were primarily focused on assessing the extent of PCB impacts to upland soils, particularly along the levee (anthropogenic surface). The levee is present on the eastern bank of Elliott Ditch, from Outfall 001 to the first railroad crossing, approximately 0.5 miles from the outfall.

2.0 PREMOBILIZATION TASK SUMMARY

CEC initiated the Project by preparing a series of plans to support field activities. Provided in the following is a brief summary of the efforts that occurred prior to implementing the FSP and subsequent targeted assessments.

2.1 PRIVATE PROPERTY ACCESS COORDINATION

2.1.1 Implementation of the FSP

2.1.1.1 Targeted Properties

The sampling associated with the Project took place on private property. As such, CEC prepared a Study Area Access Plan to guide outreach to private property owners in support of executing the Project. CEC initially gathered property boundaries and ownership information from the Tippecanoe County Geographic Information System (GIS) Department for parcels where samples were to be collected. The ownership information available only included the property owner address; no phone numbers or e-mail addresses. There were 24 private properties with 18 different owners targeted for access in support of implementing the FSP. Initially, CEC used this information to engage the private property owners with a mailing that included an introductory letter and Project fact sheet. The initial mailing resulted in a number of the private property owners calling CEC to discuss the Project and arrange face-to-face meetings. For those owners that did not contact CEC, a canvassing approach (i.e. knocking on doors) was implemented for outreach.

CEC met with many of the property owners privately to discuss the Project, their concerns, answer questions, and obtain access approval. Permission to access property was required from 18 private property owners and was needed to complete sampling at locations identified in the FSP. Of those 18 property owners, CEC obtained verbal or written approvals from 14. Of the four property owners that would not provide access, one was a vacant property, two did not support the Project, and the other was Duke Energy (Duke). Duke requested copies of the Project files to perform its own environmental and legal review before providing access. Duke has since completed its review

and prepared its own agreement that provides access for sampling, along with other terms and conditions. As of the date of this report, the sample(s) from the Duke property has not been collected.

2.1.1.2 Alternate Properties

A subset of the sampling locations proposed in the FSP had to be relocated due to the inability to reach the private property owners or the unwillingness to grant access. All but one of these sampling locations were relocated to the same geomorphic surfaces, at a similar distance downstream from the outfall, and on accessible properties. The one sample that was not relocated is present on the T-1 surface on the Duke Energy property. This boring could not be relocated due to no other T-1 surfaces being present within the reaches of the assessment. The other locations were moved to either the property on the other side of the stream, if access had been obtained from its owner and it contained the same geomorphic surface(s) as the property that would not provide access. Alternatively, the locations were moved to a nearby (adjacent if possible) property on the same side of the stream if it contained the necessary geomorphic surface(s) for sampling. In total, two sampling locations were moved across the stream and five were moved to nearby properties on the same side of the stream. The sampling locations moved to nearby properties required access to be provided verbally by three other private property owners. Please refer to Figures 3 and 4 for the properties where access was unattainable, the accessed properties, as well as the final sampling locations. This approach to modifying sampling locations due to inaccessible properties was reviewed and approved by the IDEM via teleconference.

2.1.2 Implementation of the Targeted Assessments

The two targeted sampling assessments took place on both private properties that had already provided access approval and those that had yet to be involved with the Project. Seven of the fourteen private property owners identified previously were involved in the targeted sampling projects. Permission for additional sampling was granted by phone or e-mail from these private property owners. The additional assessments required CEC to engage two new private property owners in a manner consistent with those property owners contacted previously. These two new

private property owners provided authorization for sample collection, one via e-mail and the other via a signed Access Agreement. In accordance with the Access Plan, all property owners were contacted at least 7 days prior to the commencement of sampling activities on their property.

Please refer to Appendix I for the Study Area Access Plan that includes figures, example mailer, fact sheet, and the Access Agreement prepared and implemented in support of this Project.

2.2 OTHER PLANNING CONSIDERATIONS

A site and project-specific Contractor Safety Plan (CSP), Project Safety, Health, and Environmental Review (PSHER), and Safe Work Plan were prepared for the field activities. The CSP incorporated critical components such as fatality prevention, human performance, and stop criteria. The CSP was reviewed in detail and formally accepted by all field personnel prior to the commencement of field activities. The PSHER and Safe Work Plan are Facility-specific planning requirements identified in the Site Conditions document. The PSHER and Safe Work Plan were prepared and submitted to the Facility and reviewed by field staff prior to the commencement of field activities.

CEC also prepared a Waste Management Plan (WMP) that identified wastes that would be generated during the field effort and outlined how those wastes would be stored, characterized, and managed. The WMP included information applicable to transporting waste materials back to the Facility for secure staging until the material was transported offsite for disposal or managed onsite. The WMP was reviewed by field personnel and understood prior to commencement of field activities.

Lastly, CEC contacted Indiana 811, the underground utility locating service in advance of each sampling event. Indiana 811 marked those utilities present within the drainage easement right-of-way. In general, underground cable lines are present along Elliott Ditch and laterals run to those private properties with service.

3.0 FIELD TASK SUMMARY

Implementation of the field portion of the FSP included two separate mobilizations. The first was to conduct sediment poling along the proposed sampling transects to assess the thicknesses and finalize the sampling locations. The second mobilization was to collect soil and sediment samples at the finalized locations. Two subsequent mobilizations, one in February 2018 and the other in June 2018, occurred as part of the targeted investigations, which were focused primarily on the PCBs impacts to upland soils within the first three reaches of Elliott Ditch.

3.1 POLING AND SURVEYING

CEC conducted a poling assessment of Elliott Ditch near the proposed 13 sediment sampling locations following the procedure outlined in Section 5.1 and the Standard Operating Procedure (SOP) for Poling Measurements to Estimate Soft Sediment Thickness of the FSP. Field staff performed the poling task in chest waders without the need of a boat. The poling exercise was conducted using a survey grade, real time kinetic (RTK)-global positioning system (GPS) unit, total station, and extendable rod with 0.1-foot gradations. The rod was fitted with a 6-inch diameter disc to collect the depth of water above the sediment surface. The water surface, stream bottom, and advancement depth (surface, hard, and overall push) elevations, and spatial locations were collected real time in the RTK-GPS unit or total station. The total station was used for data collection in areas of dense canopy. Poling was conducted following a grid-based approach with spacing based on the apparent size of the sediment deposits and extended one grid spacing beyond the apparent boundary of the depositional feature. Observations, i.e. sediment type, geomorphic setting, and presence/absence of aquatic vegetation, collected from each rodding location were also collected electronically in the surveying equipment. The data summary tables from the poling and surveying can be found in Appendix II.

The poling assessment was used to finalize the sediment sampling locations. In general, the locations were moved such that the samples were collected from the area containing the thickest deposits on each transect. The sediment sampling locations were finalized in the office before mobilizing into the field for collection.

3.2 SEDIMENT SAMPLING

CEC collected sediment samples following the SOPs found in the FSP at the locations selected based on access coordination and poling. Field staff navigated to the sediment sampling locations using a RTK-GPS unit. The sediment samples were collected using a Russian Peat Borer after unsuccessful attempts to collect the samples with check valve and recovery auger samplers. The latter two pieces of equipment were unable to meet the 80-percent recovery requirement specified in the FSP due to granular materials present within the sediment profile. The gravel and sand would cause the check valve to stick or get caught in the catcher of the recovery auger, limiting recovery to approximately 20 to 40-percent. The sediment samples were collected by field staff donning chest waders and nitrile gloves. The Russian Peat Borer was advanced to the discrete sampling interval using manual pressure and, when necessary, a slide hammer. Once at the targeted depth interval, the sampler rod was rotated to simultaneously open the sampling chamber and cut the core. Sediment recovery using the Russian Peat Borer was in excess of 90-percent at most sampling locations. Each recovered core was removed from the sampling chamber and placed onto plastic sheeting near the ditch for logging purposes. The cores were then placed into labeled plastic bags for subsequent processing and sampling. This process continued until sampler refusal. Please refer to Figures 3, 3a, 3b, 3c, 4, 4a, and 4b and Table 1 for the sediment sampling locations.

Reusable sampling equipment was grossly decontaminated between each sampling interval at the same location by removal solids and rinsing with distilled water. The sampling equipment was also decontaminated using brushes, Alconox and distilled water mixture, and rinsed with distilled water between sampling locations. Decontamination solids and fluids were containerized in matrix specific 55-gallon drums near the ditch.

3.3 SOIL SAMPLING

3.3.1 Implementation of the FSP

CEC collected these soil samples following the SOPs and at the selected locations found in the FSP. As discussed previously, a subset of these locations had to be moved due to access considerations. Field staff navigated to the approximate soil sampling locations using a RTK-GPS unit. Slight modifications to the soil sampling locations were made in the field to account for physical obstructions such as trees, man-made features (i.e. structures), underground utilities, large roots, and fences. The actual sampling locations were collected in the field using the RTK-GPS unit. When possible, soil samples were collected using a soil recovery auger fitted with a stainless steel core and 6-inch poly liners per the FSP. The auger was advanced in 6-inch intervals by hand, using a gas powered rotary hammer drill, manual force or a combination of the two. The recovery auger was then extracted from the borehole by threading a T-handle to the top of the extension rod and pulling it out while limiting rotation. Each recovered core in the poly liner was removed from the sampling auger and capped on both ends, noting the orientation of the sample as “top” and “bottom”. The cores were then labeled with location and depth information for subsequent processing and sampling.

Reusable sampling equipment was grossly decontaminated between each sampling interval at the same location by removal solids and rinsing with distilled water. The sampling equipment was also decontaminated using brushes, Alconox and distilled water mixture, and rinsed with distilled water between sampling locations. Decontamination solids and fluids were containerized in matrix specific 55-gallon drums near the ditch.

3.3.2 Implementation of the Targeted Assessments

The soil sampling locations and depths for the targeted assessments were selected based on the results of the FSP and access considerations. These samples and associated analytical results were used to supplement the data from the FSP to provide a better understanding of the spatial distribution of PCB impacts. For shallow soil borings with a targeted depth of 2 feet below grade,

field staff collected samples according to the following. If field staff was able to advance to the targeted depth and obtain the required recovery using the soil auger and manual force, samples were collected in this fashion as described previously. However, at several locations, the soil recovery auger could not achieve the required depth or provide sufficient recovery due to soil characteristics (clay content, moisture, and density) and friction and an 8-inch stainless steel hand trowel was used to sample these locations. Samples were collected and processed per the FSP to ensure consistency between sample locations and across different field efforts. Soil samples were collected in 6-inch intervals, placed in 6-inch poly liners while maintaining orientation of the recovered media, and capped on both ends with “top” and “bottom” being noted on liner. The soil sampling process continued at each location until met with refusal or a depth of 2 feet below grade, whichever occurred first.

Additionally, nineteen soil borings were advanced on the levee surface located on the east side of Elliott Ditch between Outfall 001 and the first railroad crossing utilizing a small, track-mounted Geoprobe. A Geoprobe was utilized to advance these borings due to the increase in targeted depth and soil conditions. These borings were advanced in two-foot increments to four feet or eight feet below grade and processed per the FSP. The borings were advanced in two-foot increments to increase the amount of soil recovery. Please refer to Figures 3, 3a, 3b, 3c, 4, 4a, and 4b and Table 1 for the soil sampling locations.

Reusable sampling equipment, including the drill rig and all downhole tooling, was grossly decontaminated between each sampling interval at the same location by removal solids and rinsing with distilled water. The sampling equipment was also decontaminated using brushes, Alconox and distilled water mixture, and rinsed with distilled water between sampling locations. Decontamination solids and fluids were containerized in matrix specific 55-gallon drums near the ditch.

3.4 SAMPLE LOGGING AND PROCESSING

The sediment and soil cores were processed, logged, and sampled by a soil scientist. Logging of both materials was performed in accordance with the SOPs in the FSP and documented by hand

on the appropriate field forms. Copies of the forms for the sediment and soil samples can be found in Appendices III and IV, respectively. Sediment samples were collected from each of the observed depositional layers found in the cores. Soil samples were collected from each of the observed horizons, and if a horizon was more than 12-inches in length, it was split into multiple samples. Similarly, if there were distinctly different material present within the same horizon, samples of each were collected. The samples were placed into 4-ounce laboratory provided glass jars and stored in a cooler on ice. Each of the samples was named according to the convention identified in Section 6.1 of the FSP. The samples were transported under chain of custody to the TestAmerica Laboratory in North Canton, Ohio. The sediment samples were analyzed for PCBs via EPA Method 8082 following sample preparation Method 3540. Preparation Method 3540 used both polar and nonpolar solvent extractions to provide more accurate and precise results. The soil samples were analyzed for PCBs via EPA Method 8082 following sample preparation Method 3540. The preparation for the soil samples used a nonpolar solvent only due to relatively low moisture content.

There were 42 sediment samples and 165 soil samples, not including quality assurance/quality control samples, collected as part of the FSP and subsequent targeted assessments. For QA/QC purposes, field duplicates were collected at a ratio of approximately one per ten samples and matrix spike/matrix spike duplicates were collected at a ratio of approximately one per twenty samples, per the FSP. Five duplicates, three matrix spike/matrix spike duplicates (MS/MSDs), and one equipment/rinsate blank collected as part of sediment sampling. Similarly, there were nineteen duplicates and six MS/MSDs collected as part of soil sampling. The QA/QC sample nomenclature followed the same convention discussed previously and used qualifiers such as “FD” for field duplicate and “MS/MSD” for matrix spike/matrix spike duplicate.

3.5 INVESTIGATION DERIVED WASTE MANAGEMENT

There was little excess sediment and soil generated during the sampling efforts. The majority of the recovered media was placed into laboratory provided glassware. Decontamination water and disposable materials (i.e. spent personal protective equipment, plastic sleeves, etc.) that were generated as part of this investigation were stored in matrix-specific 55-gallon drums. The

contents of each drum were sampled by CEC and analyzed for PCBs via EPA Method 8082 in support of characterization. Each drum was labeled with a “Pending Analysis” sticker and the contents and accumulation start date were noted on the drum. The drums were temporarily staged in a secure area near the ditch and transported to the Facility by a third party vendor for secure staging prior to disposal. The drummed solids contained less than 50 mg/Kg PCBs and were managed by the Facility at a RCRA Subtitle D landfill under an existing waste profile for these materials. The drummed liquids did not contain detectable concentrations of PCBs and were managed by the Facility at its wastewater treatment plant.

4.0 FINDINGS

4.1 SEDIMENT THICKNESS AND VOLUME EVALUATION

The data collected during poling was processed for an analysis of depositional areas within the 13 sediment sampling areas of Elliott Ditch. The analysis included estimating the extents of depositional areas, the thicknesses of the observed soft sediment layers, and volume estimates. CEC has prepared figures identifying the confirmed depositional area extents and sediment thicknesses. AutoCAD Civil3D software was used to perform the described analysis and generate the figures. Please refer to Figure 5 and Figures 5A through 5M for the results of the poling task.

A summary of each of the 13 depositional areas can be found in Table 2. Detailed poling log sheets including the point name, water depth, soft, hard, and total push depths, sediment type, geomorphic feature, and if aquatic vegetation was present can be found in Appendix II.

4.2 SEDIMENT CHARACTERISTICS

Sediment samples were collected within Elliott Ditch to the depths identified during the poling and surveying field effort. The majority of the sediment samples included an initial layer of medium to coarse sand with varying gravel content (typically in the range of 15 to 35-percent) followed by intermixed layers of sandy and silty loam. At greater depths (i.e. greater than 3-feet below grade) samples included a horizon of silty or sandy clay. The sediment samples were typically black to very dark brown in color. The majority of the sediment samples did not contain appreciable wood or organic content. Shells were identified in less than 10-percent of the samples. The field sampling sheets for the sediment can be found in Appendix III.

4.3 SEDIMENT PCB ANALYTICAL RESULTS

The sediment samples were collected and analyzed as discussed previously. A summary of the PCB analytical results for the sediment samples is provided in Table 3 and the associated laboratory analytical reports can be found in Appendix V. A total of 47 sediment samples,

including 5 field duplicates, were submitted for analytical testing for PCBs via EPA Method 8082 and preparation Method 3540, using both polar and nonpolar solvents for extraction. PCBs were detected in all 47 samples ranging from 0.28 milligrams per Kilogram (mg/Kg) to 39.9 mg/Kg. PCBs were detected at concentrations greater than 1 mg/Kg in 32 of the 47 sediment samples and at concentrations greater than 10 mg/Kg in eight of the samples. Of the PCB concentrations exceeding 10 mg/Kg, six of the eight samples were collected from Milepost 00.60 to Milepost 1.03. Relatively higher concentrations of PCBs (i.e. greater than 10 mg/Kg) in sediment were typically observed from 1.5 to 3.5-feet below grade. The lowest PCB concentrations (i.e. less than 5 mg/Kg) were typically seen at or near the sediment surface.

4.4 SOIL CHARACTERISTICS

The subsurface geology encountered in the soil borings advanced through the various naturally occurring geomorphic surfaces was indicative of native, residual, materials. Soils were typically dark brown to black in color, very plastic, and significant increases in soil consolidation were noted as the depth below ground surface increased. Root and wood content was typically less than 15-percent. Rock and other granular materials were observed in the majority of the soil borings at less than 15-percent; however, a portion of the soil samples contained between 15 and 35 percent. Odors were not observed in the soil samples. The granular structure of the soils was typically fine to very fine with an isolated group of samples exhibiting medium grain characteristics. The vast majority of the subsurface geology within the investigation area was a loam material with varying amounts of sand and silt. The presence of sand and silt typically decreased with depth. Isolated horizons of clay, clayey loam, and silty clay were observed in a subset of borings typically at depths greater than 1.25-feet below grade.

Subsurface geology of the man-made levee along Elliott Ditch was indicative of soils introduced through anthropogenic activity. Soils were varied in distinct horizons below ground surface and showed evidence of the levee construction through lifts of fill material. For the assessed areas of the levee, a soil horizon of organic material and silty loam was typically present at 0.0 to 0.5 feet below grade. Under this horizon, the majority of soils consist of an aggregate of clay loam, silty clay, and clay with sand. Between 0.5 and 4.0 feet below grade, soils were typically reddish brown

or brown to dark brown in color, moderately to very plastic with fine granular structure. Very plastic, black clay with sand was present at some locations along the levee at depths between 2.5 feet and 4.0 below grade. While most samples had gravel content less than 15-percent, isolated horizons less than 0.5 feet in thickness were identified containing greater than 60-percent gravel. This is indicative of the levee construction taking place in lifts and possibly including graveled access roads. The soil field sampling sheets can be found in Appendix IV.

4.5 SOIL PCB ANALYTICAL RESULTS

The soil samples were collected and analyzed as discussed previously. Please refer to Table 4 for a summary of the PCB analytical results for the soil samples and Appendix V for the associated laboratory analytical reports. A total of 184 soil samples, including 19 field duplicates, were submitted for analytical testing during implementation of the FSP. PCBs were detected in 124 of the 184 soil samples at concentrations ranging from 0.02 mg/Kg to 94.2 mg/Kg. PCBs were detected at concentrations greater than 1 mg/Kg in 51 of the 184 soil samples and at concentrations greater than 10 mg/Kg in 12 of the samples. Five samples, including one duplicate, exceeded 50 mg/Kg and all were collected from the levee.

PCB concentrations, if detected, in the upland soil were typically observed to be less than 1 mg/Kg. The lone exception comes from the upland surface at Milepost 00.51, which contained PCB concentrations in the range of 2 to 7 mg/Kg. This upland area is situated between the two sets of railroad tracks, which may subject it to flooding conditions dissimilar to the other areas. PCB detections from the fourth terrace (T-4) surfaces were all less than 1 mg/Kg; whereas, PCB detections from the T-6 surfaces ranged from non-detect to 4.65 mg/Kg. Of the 16 samples from the T-6 surface, three exceeded 1 mg/Kg. The T-7 geomorphic surface did not contain concentrations of PCBs greater than 1 mg/Kg with the exception of the samples at Milepost 01.14, which contained samples from four different boring locations that exceed this concentration. The depression and floodplain surfaces contained PCB concentrations ranging from approximately 0.07 to 2.44 mg/Kg, with the relatively higher concentrations being observed at greater than six inches in depth.

The highest concentrations of PCBs and widest extent of impacts were observed in the levee surface with concentrations greater than 50 mg/Kg being observed in five samples, one of which was a duplicate. PCB concentrations exceeding 10 mg/Kg were observed in 11 samples from the levee surface. The PCB impacts to the levee vary in depth across the anthropogenic feature; however, it appears to be limited to the upper two to three feet of material. The deepest soil sample with a concentration exceeding 1 mg/Kg was collected from 1.75 to 2.75 feet below grade at Milepost 00.17.

4.6 GEOMORPHOLOGY ASSESSMENT

The FSP is based on the geomorphology of Elliott Ditch and the understanding that PCBs tend to adsorb to finer grained materials, i.e. silt and clay sized particles that often contain organic matter. The geomorphic and anthropogenic features of the ditch have influenced depositional patterns both within the channel sediment and floodplain soil. The assessment approach includes the collection of sediment and soil samples along transects of known depositional and erosional features. The transects included sediment samples being collected from within the ditch itself, and soil samples being collected from the observed geomorphic surfaces or terraces and upland areas to assess the distribution of PCBs associated with historic releases from Outfall 001. Justification for sampling locations is provided in Table 3 of the FSP.

The geomorphology based sampling approach is supported by the results of this assessment. In regards to the sediment results, the assessed portion of the ditch should be discussed in two different sections. The first being from the outfall to Milepost 01.00, which contains thicker depositional areas, ranging from 0.7 to 4.3 feet in depth, and more sediment horizons than the subsequent section. This is to be expected based on the geomorphic study since this portion is less steep (Reach 1) and deposition is expected in areas of pooled water (Reaches 1 and 2). The highest PCB concentrations are detected in samples at depth in these reaches. More specifically, from the outfall to Milepost 00.47, the highest PCB detections came from the deepest samples at each of the four locations, with the highest concentration (16.87 mg/Kg) being found nearest the outfall. From Milepost 00.47 to 01.00, the highest PCB concentrations tend to occur from 1.75 to 3.50 feet below the top of sediment. PCBs were detected in the shallow sediments at lower concentrations

than at depth. The shallower sediment contains more granular material, which is less likely to support adsorption of PCBs. These results indicate that the release of PCBs is likely historic in nature since the appreciable impacts occur at depth and have been covered over time. The impacts observed in the shallower sediments could be attributable to resuspension and migration of historically accumulated PCBs, likely in finer grained materials.

The sediment deposits from Milepost 01.00 to 01.59 are less prevalent and thick, ranging from 0.29 to 2.25 feet in depth, and contain fewer distinct horizons. This is to be expected given the Elliott Ditch channel characteristics, i.e. steep, deeply incised channel, etc., within this stretch. PCB concentrations are less than 2.03 mg/Kg in all but two samples collected from this section. Appreciable PCB detections, greater than 16.0 mg/Kg, occur at Milepost 1.03 in the two samples collected from 1 to 2 feet below the top of sediment.

The PCB concentrations in soil samples from the various, naturally occurring geomorphic surfaces tend to be similar. For example, the upland and T-4 surface samples were all less than 1 mg/Kg, with the exception of what was observed in the upland soil from Milepost 00.51. As noted previously, this sample location is between the two railroad tracks and could be subject to different flooding conditions than other upland sampling locations. Similarly, the T-7 surface only contained PCB concentrations in excess of 1 mg/Kg in samples from four different boring locations at Milepost 01.14. The remainder of the soil samples from this surface exhibited similar soil characteristics and PCB concentrations. The levee, an anthropogenic feature, is inherently heterogeneous given how it appears to be constructed with different fill material sources over time. The observed soil conditions and PCB concentrations in the collected samples vary over the levee; however, impacts greater than 1 mg/Kg tend to be limited to the upper two to three feet of material.

4.7 PCB AROCLOR OBSERVATIONS

The PCB Aroclor patterns provide insight into the historic source material associated with the PCB impacts. In all but five of the soil samples, the detected PCBs were quantified as Aroclors 1248 and/or 1260, which agrees with Aroclors typically observed at the Facility and in the Pydraul source material. The Aroclor patterns in the sediment are more difficult to assess and understand.

In all but one of the sediment samples upgradient of the railroad crossings, the second crossing is approximately at Milepost 00.53, the detected PCBs were quantified as Aroclors 1248 and/or 1260. The sample containing different Aroclors, quantified as Aroclors 1242 and 1254, was located at Milepost 00.25 from a depth of 3.51 to 4.3 feet below the top of sediment surface. From Milepost 00.54 to 1.03, the stretch of Elliott Ditch from the second railroad crossing to the 18th Street crossing, the majority of the detected PCBs were quantified as Aroclors 1242 and 1254. After the 18th Street crossing, the detected PCBs were quantified again as Aroclors 1248 and/or 1260. The shift in the PCB Aroclor quantified for the samples from Milepost 00.54 to 1.03 could be the result of anaerobic dechlorination weathering resulting in lighter chlorinated Aroclors being reported from sources of heavier chlorinated Aroclors. It could also be the result of a different source material.

5.0 DATA QUALITY

Data quality objectives (DQOs) were evaluated by assessing the following quality indicators: precision, accuracy, representativeness, completeness, and comparability.

5.1 PRECISION

Precision is a measure of the reproducibility of analyses under a given set of conditions (i.e., the degree to which two or more measurements are in agreement). Precision evaluates how far different individual reported values are from the average or mean. Precision is thus a measure of the magnitude of random error and will be expressed as the relative percent difference (RPD). The lower the RPD value is, the more precise (i.e., reproducible) the data.

Precision is evaluated using the RPD, which is determined according to the following equation:

$$RPD = \frac{|Value\ 1 - Value\ 2|}{Arithmetic\ Mean\ of\ Value\ 1\ and\ 2} \times 100$$

This equation above is appropriate when the analytical results are greater than 5 times the reporting limit (RL). For results that are near the limit of quantitation, acceptable precision is demonstrated by the absolute value of the difference between Value 1 and Value 2 being within 2 times the RL. For results that are reported between the RL and the method detection limit (MDL), precision is considered poor by definition (i.e., the results are considered qualitatively acceptable in that a constituent can be identified, but are quantitatively suspect since the concentration cannot be accurately quantified). This is the reason that results between the RL and MDL are “J” flagged as estimated.

For this investigation, precision for sediment samples was evaluated using the analytical results for samples ED-00.08-SD02-0.75-1.4, ED-00.25-SD01-3.51-4.3, ED-00.72-SD03-2.40-3.50, ED-01.03-SD02-0-0.98, ED-1.03-SD02-0.98-1.65 and the respective duplicate samples. Acceptable precision for field duplicates in sediment is typically RPD < 40-percent. Four of the five sediment

samples met this precision criteria. The one sample that does not, ED-1.03-SD02-0.98-1.65, is likely the result of chemical heterogeneity across the sediment matrix and heterogeneity of the sediment matrix itself.

The soil samples precision was evaluated in a similar fashion. Of the 19 soil samples with duplicates, the RPD was only able to be calculated for 11 of them due to non-detects in almost half of these samples. The RPD met the 40-percent precision criteria in six of the 11 samples, indicative of chemical heterogeneity across the soil matrix and heterogeneity of the soil matrix itself. However, these analyses of precision is not expected to impact the usability of the data.

5.2 ACCURACY

Accuracy is a measure of the bias that exists in a measurement system (i.e., the degree of agreement between an observed value and a reference or true value). Accuracy measures the average or systematic error of a measurement method or sampling method. Accuracy in the field is determined through the collection of equipment and trip blanks and review of the results for evidence of sample contamination stemming from field activities or sample transport.

Non-disposable sampling equipment used throughout the investigation was thoroughly cleaned between each sample location, thus minimizing the potential for impacts to sampling stemming from field activities. One equipment blank sample, identified as “Equip Rinsate”, was collected from the stainless steel soil augering equipment to verify that constituents were not being introduced into the sample due to improper decontamination between boring locations. PCBs were not detected in the rinsate sample.

5.3 REPRESENTATIVENESS

Representativeness expresses the degree to which data accurately and precisely represent the environmental condition. Representativeness is accomplished by maintaining sample integrity with appropriate preservation and meeting technical holding times and by collecting a statistically

significant number of samples. Field representativeness is dependent upon the proper design of the sampling program and will be satisfied by following proper sampling techniques.

Field work was conducted in accordance the regulatory approved FSP and the associated SOPs. Samples were collected using laboratory provided containers, preserved in a cooler on ice, and were immediately delivered to the laboratory within specified hold times. Sample locations are as justified in Table 3 of the FSP and designed to assess the erosional and depositional features of Elliott Ditch from Facility Outfall 001 to Milepost 1.59. Accordingly, the analytical results are considered to be representative of this reach of Elliott Ditch.

5.4 COMPLETENESS

Completeness is the measurement of the amount of valid data obtained from a measurement system compared to the amount that was expected to be obtained under “normal” conditions. Completeness establishes whether a sufficient number of valid measurements were obtained. The closer this value is to 100, the more complete the measurement process. Data rejected, whether due to sampling design error, measurement error, or bias or sample matrix interferences, will be considered invalid measurements. The following formula was used to estimate completeness:

$$\text{Percent Completeness} = \frac{V}{T} \times 100$$

Where:

V = number of measurements judged valid

T = total number of measurements

The sampling location situated on the T-1 surface on Duke Energy Property is the only data that is missing from this assessment that was specified in the FSP. All other sampling points were collected, not necessarily in the exact specified location due to access issues, but on the targeted geomorphic surface near the specified Milepost. Two additional field sampling efforts were performed in accordance with the FSP to collect targeted information. Therefore, the dataset for this portion of the Elliott Ditch assessment is considered complete.

5.5 COMPARABILITY

Comparability expresses the confidence with which one set of data can be compared to another. It is a qualitative measurement to ensure sampling and analytical procedures are consistent within and between data sets, such as split sampling or monitoring. Analytical data is comparable when similar sampling, analytical methods, and reporting limits are consistently used for assessments of Elliott Ditch. Comparability was controlled by requiring the use of specific nationally-recognized analytical methods and requiring consistent method performance criteria.

Sampling was conducted in accordance with the approved FSP and associated SOPs. Because of this, the sampling procedure between sample locations and across different sampling events was consistent. Additionally, the same laboratory analyzed samples using consistent analytical methods. Thus, the data set is considered comparable.

TABLES

**Table 1. Sediment and Soil Sampling Locations
Elliott Ditch Field Sampling Report
Lafayette, Tippecanoe County, Indiana
August 2018**

Boring ID	Northing (feet)	Easting (feet)	Assessment
ED-00.00-SL01	1,869,378.92	3,015,067.30	Additional Sampling
ED-00.00-SL03	1,869,400.56	3,015,093.48	Additional Sampling
ED-00.00-SL04	1,869,294.01	3,015,043.12	Additional Sampling
ED-00.02-SL01	1,869,315.12	3,014,964.44	Additional Sampling
ED-00.05-SL01	1,869,223.98	3,014,825.12	Additional Sampling
ED-00.08-SD02	1,869,094.82	3,014,604.72	FSP
ED-00.08-SL01	1,869,190.16	3,014,650.63	FSP
ED-00.08-SL03	1,869,135.64	3,014,698.12	FSP
ED-00.08-SL04	1,869,066.59	3,014,765.16	FSP
ED-00.08-SL05	1,869,067.08	3,014,613.53	Additional Sampling
ED-00.13-SL01	1,868,975.28	3,014,519.78	Additional Sampling
ED-00.17-SL01	1,868,850.93	3,014,389.57	Additional Sampling
ED-00.17-SL02	1,868,799.18	3,014,349.04	Additional Sampling
ED-00.19-SL01	1,868,726.19	3,014,254.17	Additional Sampling
ED-00.21-SL01	1,868,677.98	3,014,170.09	Additional Sampling
ED-00.23-SL01	1,868,631.70	3,014,076.12	Additional Sampling
ED-00.25-SD01	1,868,643.99	3,014,036.70	FSP
ED-00.25-SL02	1,868,580.11	3,013,983.51	FSP
ED-00.25-SL03	1,868,514.71	3,014,053.32	FSP
ED-00.25-SL04	1,868,616.44	3,013,941.63	FSP
ED-00.27-SL01	1,868,506.18	3,013,932.37	Additional Sampling
ED-00.29-SL01	1,868,418.53	3,013,878.38	Additional Sampling
ED-00.31-SL01	1,868,316.15	3,013,813.16	Additional Sampling
ED-00.33-SL01	1,868,217.98	3,013,748.65	Additional Sampling
ED-00.36-SL01	1,868,114.90	3,013,689.75	Additional Sampling
ED-00.39-SD02	1,868,039.02	3,013,597.07	FSP
ED-00.39-SL01	1,868,018.03	3,013,553.06	FSP
ED-00.39-SL03	1,867,992.66	3,013,608.85	FSP
ED-00.39-SL04	1,867,949.16	3,013,695.32	FSP
ED-00.41-SL01	1,867,899.62	3,013,539.41	Additional Sampling
ED-00.44-SL01	1,867,757.97	3,013,433.80	Additional Sampling
ED-00.47-SD02	1,867,703.13	3,013,346.80	FSP
ED-00.47-SL01	1,867,689.50	3,013,286.40	FSP
ED-00.47-SL03	1,867,660.53	3,013,356.13	FSP
ED-00.47-SL04	1,867,617.04	3,013,448.18	FSP
ED-00.51-SD02	1,867,474.48	3,013,175.15	FSP
ED-00.51-SL01	1,867,488.83	3,013,161.52	FSP

Boring ID	Northing (feet)	Easting (feet)	Assessment
ED-00.51-SL03	1,867,459.87	3,013,236.82	FSP
ED-00.51-SL06	1,867,415.72	3,013,207.87	Additional Sampling
ED-00.54-SD03	1,867,300.71	3,013,071.29	Additional Sampling
ED-00.55-SL01	1,867,284.67	3,013,090.86	Additional Sampling
ED-00.55-SL02	1,867,269.43	3,013,110.90	Additional Sampling
ED-00.60-SD02	1,867,085.05	3,012,861.47	FSP
ED-00.60-SL01	1,867,131.06	3,012,853.13	FSP
ED-00.60-SL03	1,867,087.45	3,012,897.81	FSP
ED-00.72-SD03	1,866,696.52	3,012,430.68	FSP
ED-00.72-SL01	1,866,625.21	3,012,465.50	FSP
ED-00.72-SL02	1,866,707.44	3,012,427.86	FSP
ED-00.72-SL04	1,866,681.96	3,012,436.28	FSP
ED-00.82-SD02	1,866,704.14	3,011,826.97	FSP
ED-00.82-SL01	1,866,731.67	3,011,901.21	FSP
ED-00.82-SL03	1,866,680.60	3,011,873.47	FSP
ED-00.82-SL04	1,866,636.94	3,011,895.86	FSP
ED-01.03-SD02	1,866,900.88	3,010,838.13	FSP
ED-01.03-SL01	1,866,929.55	3,010,855.90	FSP
ED-01.03-SL03	1,866,845.67	3,010,817.09	FSP
ED-01.14-SD02	1,866,726.26	3,010,229.29	FSP
ED-01.14-SL01	1,866,764.12	3,010,218.24	FSP
ED-01.14-SL03	1,866,724.19	3,010,279.63	FSP
ED-01.14-SL04	1,866,776.90	3,010,260.89	Additional Sampling
ED-01.14-SL05	1,866,791.34	3,010,178.80	Additional Sampling
ED-01.14-SL06	1,866,737.60	3,010,182.01	Additional Sampling
ED-01.24-SD02	1,866,557.13	3,009,897.96	FSP
ED-01.24-SL01	1,866,577.39	3,009,886.95	FSP
ED-01.24-SL03	1,866,533.34	3,009,904.12	FSP
ED-01.24-SL04	1,866,609.54	3,009,882.92	Additional Sampling
ED-01.24-SL05	1,866,572.43	3,009,873.63	Additional Sampling
ED-01.24-SL06	1,866,593.40	3,009,920.68	Additional Sampling
ED-01.37-SD02	1,866,141.98	3,009,262.65	FSP
ED-01.37-SL01	1,866,198.53	3,009,244.15	FSP
ED-01.37-SL03	1,866,264.58	3,009,228.30	FSP
ED-01.49-SD03	1,865,918.07	3,008,753.35	FSP
ED-01.49-SL01	1,865,973.73	3,008,695.96	FSP
ED-01.49-SL02	1,865,948.23	3,008,696.02	FSP
ED-01.49-SL04	1,865,879.01	3,008,696.18	FSP

NOTE:

1. All coordinates are Indiana State Plane West, units are feet.
2. "SD" in the boring ID indicates sediment and "SL" is soil.

Table 2. Sediment Poling Volume Estimates
 Elliott Ditch Field Sampling Report
 Lafayette, Tippecanoe County, Indiana
 August 2018

Transect	Area (SF)	Max Thickness (Feet)	Volume (CY)
A	2,285.78	3.80	137
B	2,307.03	4.36	118
C	2,861.56	4.60	183
D	1,391.03	3.53	85
E	586.70	3.00	14
F	850.18	2.62	37
G	292.68	4.34	12
H	295.94	0.80	5
I	366.50	2.35	13
J	230.31	1.84	5
K	285.27	3.00	7
L	846.82	3.36	15
M	236.17	1.30	5

**Table 3. Sediment Sampling PCB Analytical Results
Elliott Ditch Field Sampling Report
Lafayette, Tippecanoe County, Indiana
August 2018**

Boring/Sample ID	PCB Aroclor									Total PCBs (mg/Kg)
	1016	1221	1232	1242	1248	1254	1260	1262	1268	
ED-00.08-SD02										
0 - 0.45'	ND	ND	ND	ND	0.68	ND	ND	ND	ND	0.68
0.45 - 0.75'	ND	ND	ND	ND	4.31	ND	0.17	ND	ND	4.48
0.75 - 1.4'	ND	ND	ND	ND	1.14	ND	0.05	ND	ND	1.19
0.75 - 1.4' FD	ND	ND	ND	ND	1.15	ND	0.06	ND	ND	1.21
1.4 - 2.03'	ND	ND	ND	ND	7.73	ND	ND	ND	ND	7.73
ED-00.25-SD01										
0 - 0.57'	ND	ND	ND	ND	0.48	ND	ND	ND	ND	0.48
0.57 - 3.51'	ND	ND	ND	ND	0.30	ND	ND	ND	ND	0.30
3.51 - 4.3'	ND	ND	ND	13.50	ND	3.37	ND	ND	ND	16.87
3.51 - 4.3' FD	ND	ND	ND	12.30	ND	1.33	ND	ND	ND	13.63
ED-00.39-SD02										
0 - 2.20'	ND	ND	ND	ND	0.91	ND	ND	ND	ND	0.91
2.20 - 2.41'	ND	ND	ND	ND	2.77	ND	ND	ND	ND	2.77
2.41 - 3.54'	ND	ND	ND	ND	2.89	ND	ND	ND	ND	2.89
3.54 - 4.30'	ND	ND	ND	ND	4.64	ND	0.14	ND	ND	4.78
ED-00.47-SD02										
0 - 0.33'	ND	ND	ND	ND	1.09	ND	0.05	ND	ND	1.14
0.33 - 1.46'	ND	ND	ND	ND	2.74	ND	0.15	ND	ND	2.89
1.46 - 1.96'	ND	ND	ND	ND	1.38	ND	0.08	ND	ND	1.46
1.96 - 3.13'	ND	ND	ND	ND	2.48	ND	ND	ND	ND	2.48
ED-00.51-SD02										
0 - 0.36'	ND	ND	ND	ND	0.62	ND	0.03	ND	ND	0.64
0.36 - 0.68'	ND	ND	ND	ND	1.31	ND	0.04	ND	ND	1.35
0.68 - 1.65'	ND	ND	ND	ND	0.55	ND	ND	ND	ND	0.55
1.65 - 1.75'	ND	ND	ND	ND	0.95	ND	0.06	ND	ND	1.01
ED-00.54-SD03										
0 - 0.45'	ND	ND	ND	0.55	ND	0.11	ND	ND	ND	0.66
0.45 - 0.9'	ND	ND	ND	0.29	ND	0.10	ND	ND	ND	0.40
ED-00.60-SD02										
0 - 1.76'	ND	ND	ND	ND	1.03	ND	0.03	ND	ND	1.06
1.76 - 2.22'	ND	ND	ND	ND	23.80	ND	ND	ND	ND	23.80
2.22 - 2.39'	ND	ND	ND	8.09	ND	1.19	ND	ND	ND	9.28
2.39 - 2.63'	ND	ND	ND	0.51	ND	0.06	ND	ND	ND	0.56
2.63 - 3.30'	ND	ND	ND	4.42	ND	0.44	ND	ND	ND	4.86

Boring/Sample ID	PCB Aroclor									Total PCBs (mg/Kg)
	1016	1221	1232	1242	1248	1254	1260	1262	1268	
ED-00.72-SD03										
0 - 2.06'	ND	ND	ND	ND	0.84	ND	0.04	ND	ND	0.88
2.06 - 2.40'	ND	ND	ND	1.45	ND	0.16	ND	ND	ND	1.61
2.40 - 3.50'	ND	ND	ND	12.10	ND	1.96	ND	ND	ND	14.06
2.40 - 3.50' FD	ND	ND	ND	11.00	ND	1.71	ND	ND	ND	12.71
3.50 - 3.84'	ND	ND	ND	6.57	ND	1.01	ND	ND	ND	7.58
3.84 - 4.05'	ND	ND	ND	6.98	ND	1.44	ND	ND	ND	8.42
4.05 - 4.30'	ND	ND	ND	4.54	ND	0.64	ND	ND	ND	5.18
0.39 - 0.70'	ND	ND	ND	ND	0.34	ND	ND	ND	ND	0.34
ED-01.03-SD02										
0 - 0.98'	ND	ND	ND	1.58	ND	ND	0.05	ND	ND	1.63
0 - 0.98' FD	ND	ND	ND	ND	1.76	ND	0.05	ND	ND	1.81
0.98 - 1.65'	ND	ND	ND	39.90	ND	ND	ND	ND	ND	39.90
0.98 - 1.65' FD	ND	ND	ND	17.10	ND	ND	ND	ND	ND	17.10
1.65 - 1.87'	ND	ND	ND	ND	16.00	ND	ND	ND	ND	16.00
1.87 - 2.25'	ND	ND	ND	1.79	ND	0.24	ND	ND	ND	2.03
ED-01.14-SD02										
0 - 1.05'	ND	ND	ND	ND	0.62	ND	0.04	ND	ND	0.65
ED-01.24-SD02										
0 - 0.17'	ND	ND	ND	ND	0.54	ND	ND	ND	ND	0.54
0.17 - 0.29'	ND	ND	ND	ND	0.28	ND	ND	ND	ND	0.28
ED-01.37-SD02										
0 - 0.90'	ND	ND	ND	ND	1.46	ND	0.05	ND	ND	1.51
ED-01.49-SD03										
0 - 0.70'	ND	ND	ND	ND	0.42	ND	ND	ND	ND	0.42
NOTES										
ND = constituent was not detected above the method detection limit										

ED-00.25-SL04											
0 - 0.5'	Upland	ND	ND	ND	ND	ND	0.07	ND	ND	ND	0.07
0.5 - 1.0'		ND	ND	ND	ND	ND	0.04	ND	ND	ND	0.04
1.0 - 1.5'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1.5' - 2.0'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ED-00.27-SL01											
0 - 1.0'	Levee	ND	ND	ND	ND	25.50	ND	ND	ND	ND	25.50
1.0 - 1.9'		ND	ND	ND	ND	0.13	ND	ND	ND	ND	0.13
1.9 - 2.8'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ED-00.29-SL01											
0 - 0.7'	Levee	ND	ND	ND	ND	6.46	ND	ND	ND	ND	6.46
0.7 - 1.7'		ND	ND	ND	ND	0.05	ND	ND	ND	ND	0.05
1.7 - 2.7'		ND	ND	ND	ND	0.07	ND	ND	ND	ND	0.07
1.7 - 2.7' FD		ND	ND	ND	ND	0.05	ND	ND	ND	ND	0.05
ED-00.31-SL01											
0 - 1.0'	Levee	ND	ND	ND	ND	22.40	ND	ND	ND	ND	22.40
1.0 - 2.0'		ND	ND	ND	ND	0.37	ND	ND	ND	ND	0.37
ED-00.33-SL01											
0 - 0.7'	Levee	ND	ND	ND	ND	0.98	ND	0.17	ND	ND	1.14
0.7 - 1.6'		ND	ND	ND	ND	0.33	ND	ND	ND	ND	0.33
1.6 - 2.3'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ED-00.36-SL01											
0 - 0.4'	Levee	ND	ND	ND	ND	0.37	ND	ND	ND	ND	0.37
0.4 - 1.0'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1.0 - 1.5'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1.5 - 2.0'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1.5 - 2.0' FD		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ED-00.39-SL01											
0 - 0.5'	Upland	ND	ND	ND	ND	0.09	ND	ND	ND	ND	0.09
0.5 - 1.0'		ND	ND	ND	ND	0.13	ND	ND	ND	ND	0.13
ED-00.39-SL03											
0 - 0.69'	Levee	ND	ND	ND	ND	5.00	ND	ND	ND	ND	5.00
0 - 0.69' FD		ND	ND	ND	ND	6.09	ND	0.39	ND	ND	6.48
0.69 - 0.98'		ND	ND	ND	ND	0.58	ND	ND	ND	ND	0.58
0.98 - 1.17'		ND	ND	ND	ND	5.02	ND	0.77	ND	ND	5.79
1.17 - 1.5'		ND	ND	ND	ND	0.11	ND	ND	ND	ND	0.11
ED-00.39-SL04											
0 - 0.5'	Upland Swale	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0.5 - 1.0'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ED-00.41-SL01											
0 - 0.5'	Levee	ND	ND	ND	ND	19.20	ND	ND	ND	ND	19.20
0.5 - 1.0'		ND	ND	ND	ND	1.98	ND	ND	ND	ND	1.98
1.0 - 1.5'		ND	ND	ND	ND	0.45	ND	ND	ND	ND	0.45
1.5 - 2.0'		ND	ND	ND	ND	0.04	ND	0.77	ND	ND	0.81
1.5 - 2.0' FD		ND	ND	ND	ND	0.04	ND	ND	ND	ND	0.04

ED-01.24-SL05											
0 - 0.42'	T-6	ND	ND	ND	ND	0.80	ND	0.18	ND	ND	0.99
0 - 0.42' FD		ND	ND	ND	ND	0.90	ND	0.19	ND	ND	1.09
0.5 - 1.46'		ND	ND	ND	ND	1.10	ND	0.21	ND	ND	1.31
ED-01.24-SL06											
0 - 0.84'	T-6	ND	ND	ND	ND	0.13	ND	0.03	ND	ND	0.16
1 - 1.96'		ND	ND	ND	ND	0.14	ND	0.03	ND	ND	0.16
ED-01.37-SL01											
0 - 0.9'	Upland	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0 - 0.9' FD		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ED-01.37-SL03											
0 - 0.27'	T-7	ND	ND	ND	ND	0.77	ND	0.12	ND	ND	0.89
0.27 - 0.92'		ND	ND	ND	ND	0.16	ND	ND	ND	ND	0.16
0.92 - 1.07'		ND	ND	ND	ND	0.24	ND	0.03	ND	ND	0.27
1.07 - 2.0'		ND	ND	ND	ND	0.19	ND	ND	ND	ND	0.19
ED-01.49-SL01											
0 - 0.5'	T-7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0 - 0.5' FD		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ED-01.49-SL02											
0 - 0.5'	T-6	ND	ND	ND	ND	0.16	ND	0.02	ND	ND	0.19
0.5 - 1.0'		ND	ND	ND	ND	0.12	ND	ND	ND	ND	0.12
ED-01.49-SL04											
0 - 0.5'	T-6	ND	ND	ND	ND	ND	0.03	ND	ND	ND	0.03
0.5 - 1.0'		ND	ND	ND	ND	ND	0.02	ND	ND	ND	0.02
1.0 - 1.81'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1.81 - 2.0'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES

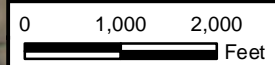
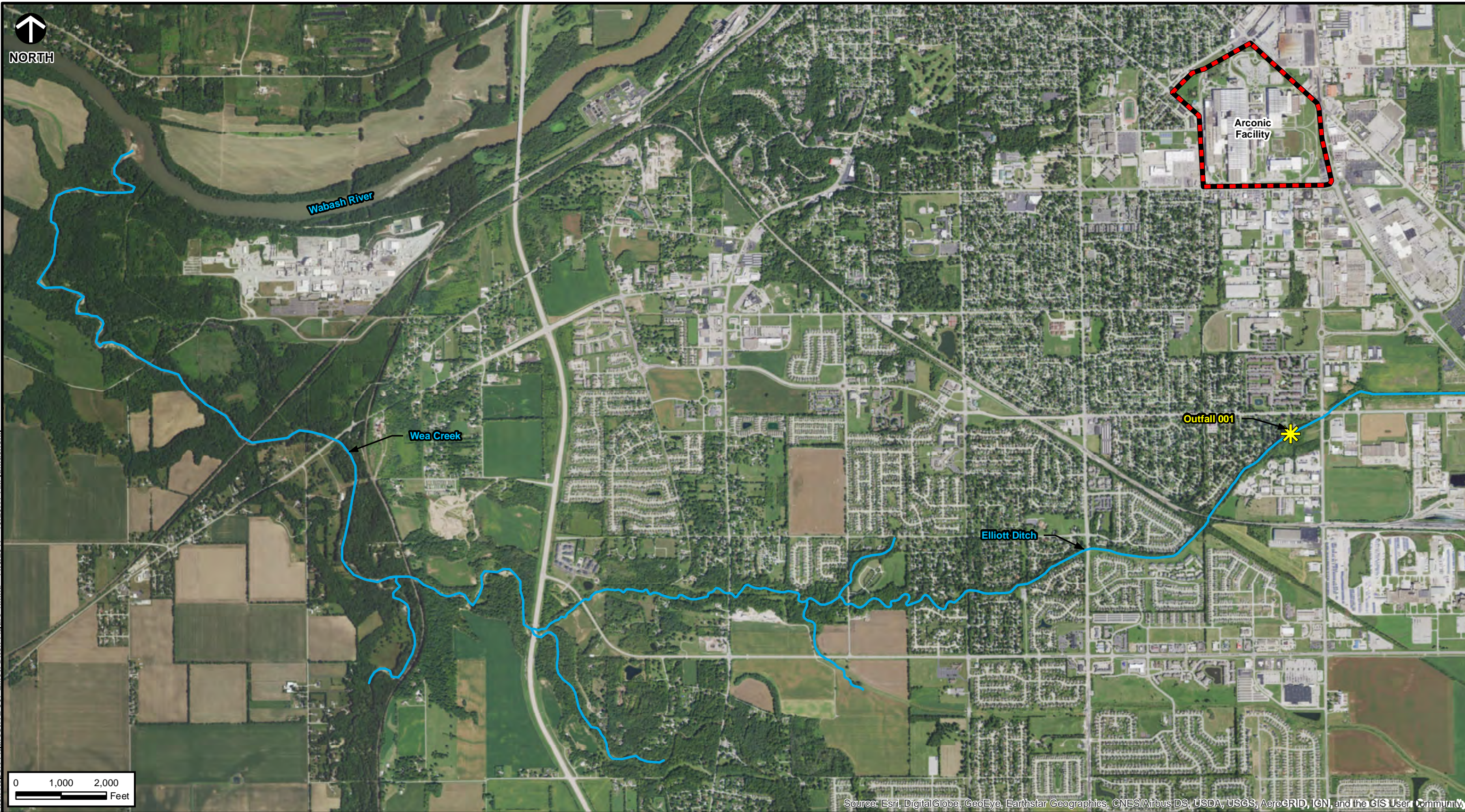
ND = constituent was not detected above the laboratory method detection limit

FIGURES



NORTH

P:\2017\172-367\GIS\Maps\Elliott Ditch Report Figures\172-367 Elliott Ditch Figure 1.mxd - 11/9/2017 - 10:26:17 AM (dmuchoki)



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

LEGEND

-  Outfall 001
-  Arconic Facility
-  Water Features

REFERENCE

ESRI WORLD IMAGERY / ARCGIS MAP SERVICE:
HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY
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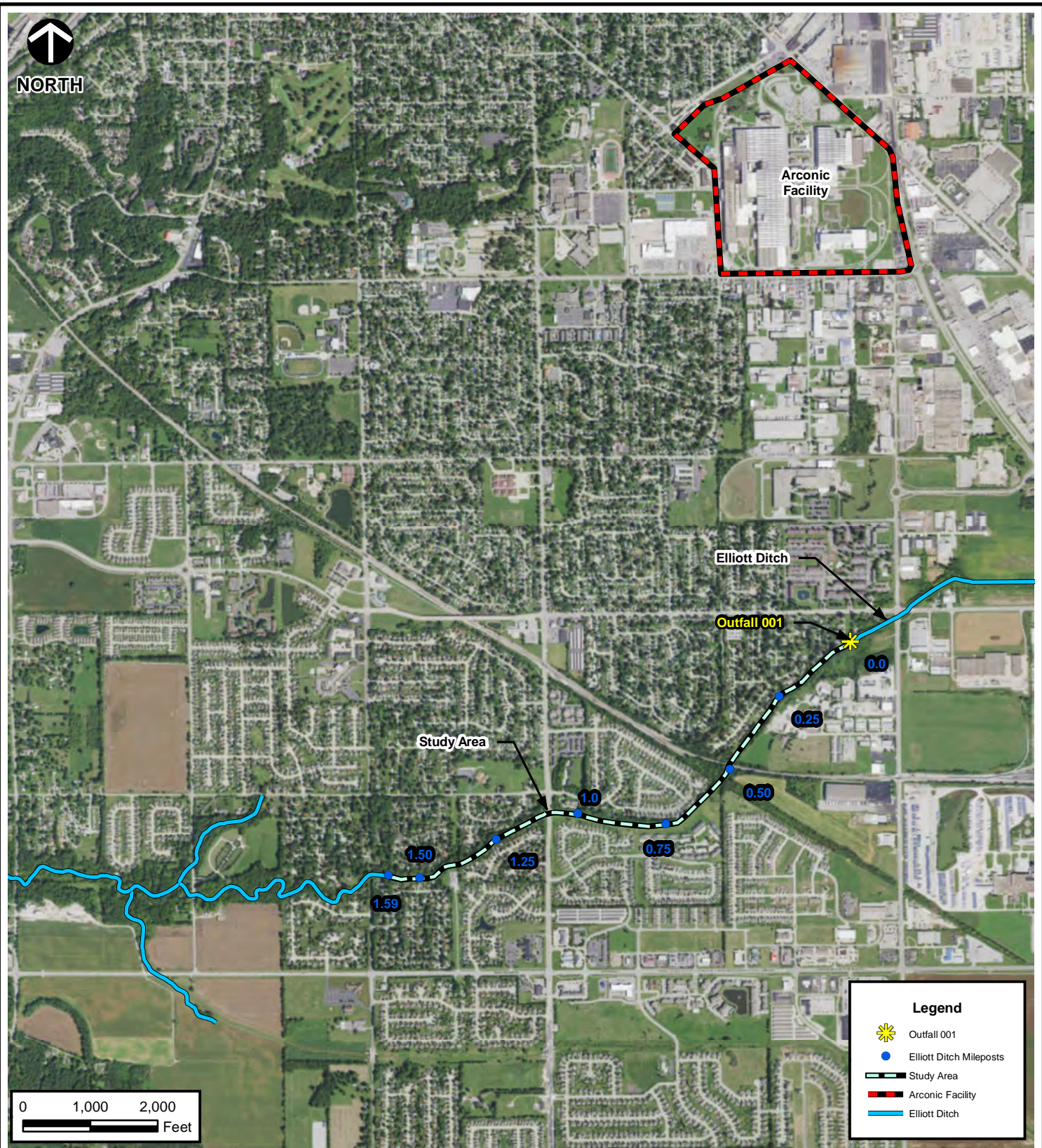
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ELLIOTT DITCH
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ELLIOTT DITCH VICINITY MAP

DRAWN BY:	DMM	CHECKED BY:	JMB	APPROVED BY:	TLM*	FIGURE NO:	1
DATE:	NOVEMBER 09, 2017	SCALE:	1" = 2,000'	PROJECT NO:	172-367.0002		

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ELLIOTT DITCH STUDY AREA

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DATE:	NOVEMBER 09, 2017	DWG SCALE:	1" = 2,000'	PROJECT NO:	172-367.0002	2

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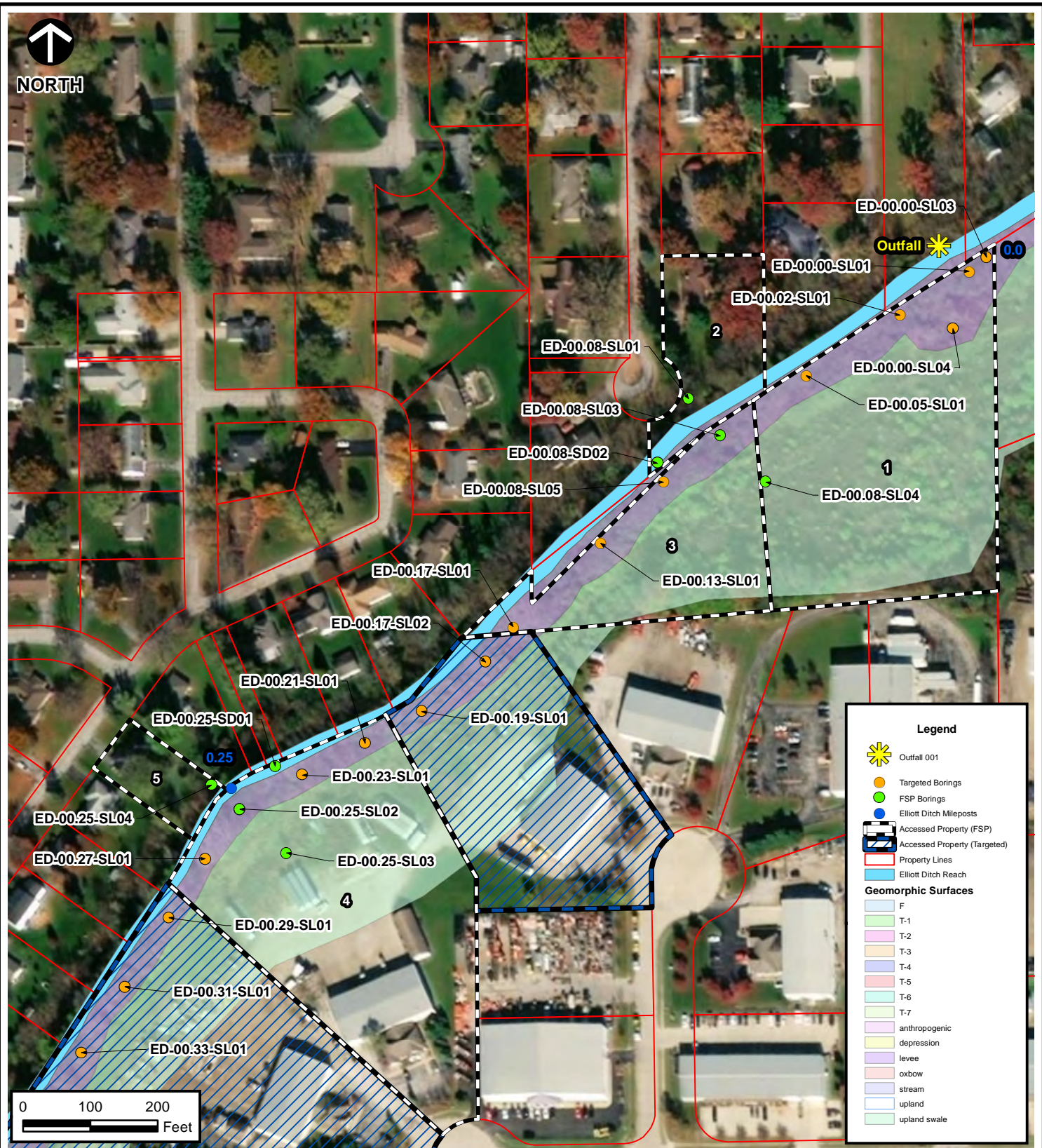
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 ELLIOTT DITCH
 FIELD SAMPLING REPORT
 LAFAYETTE, INDIANA**

ACCESSED PROPERTIES AND SAMPLING LOCATIONS (MILEPOST 0.0 -1.0)

DRAWN BY:	DMM	CHECKED BY:	JMB	APPROVED BY:	TLM*	FIGURE NO:
DATE:	AUGUST 28, 2018	DWG SCALE:	1" = 600'	PROJECT NO:	172-367.0002	3

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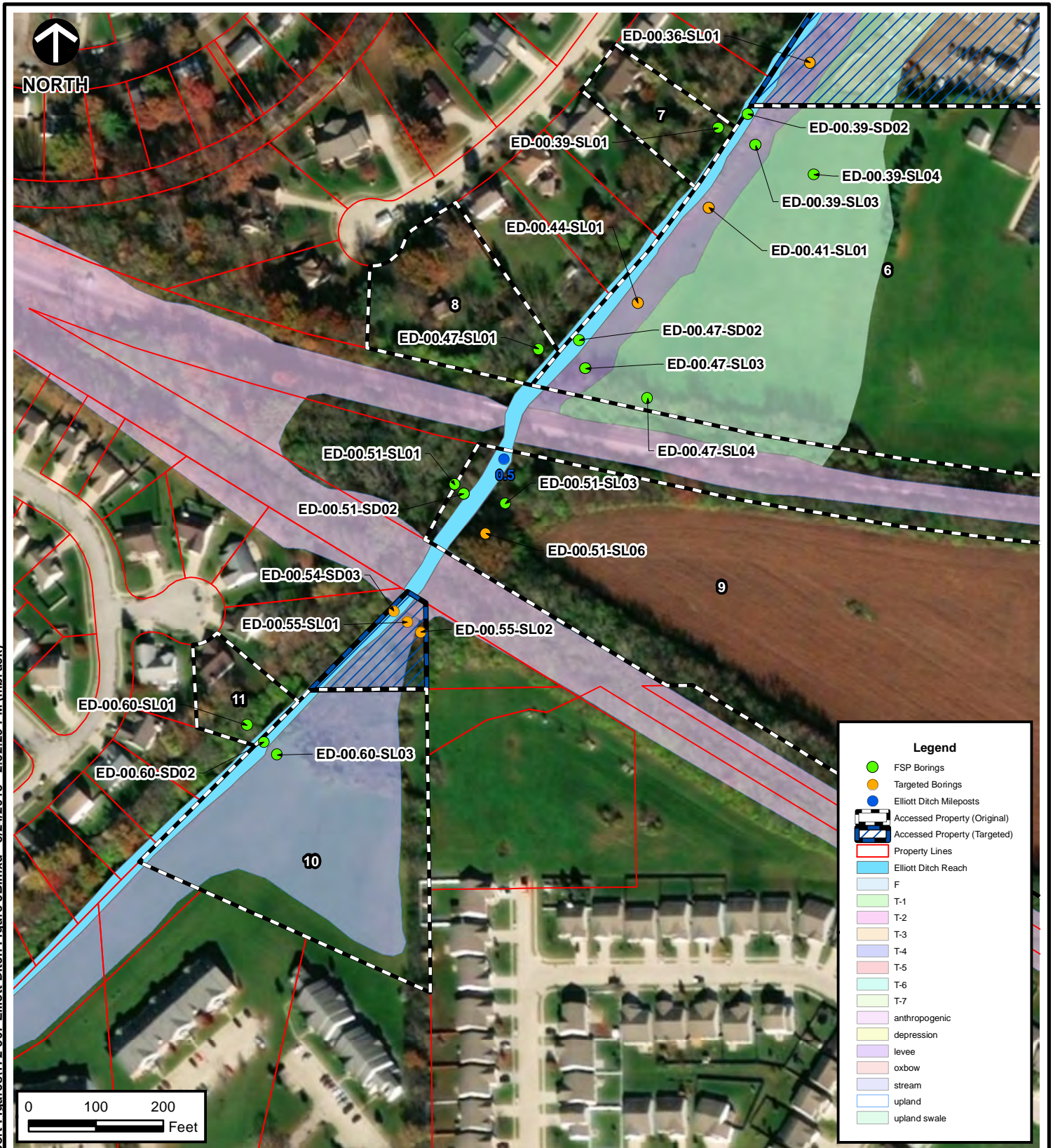
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SAMPLE LOCATIONS AND IDENTIFICATIONS

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DATE:	AUGUST 24, 2018	DWG SCALE:	1" = 200'	PROJECT NO:	172-367.0002	3A

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SAMPLE LOCATIONS AND IDENTIFICATIONS

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DATE:	AUGUST 24, 2018	DWG SCALE:	1" = 200'	PROJECT NO:	172-367.0002	3B

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NORTH

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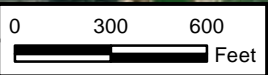
SAMPLE LOCATIONS AND IDENTIFICATIONS

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DATE:	AUGUST 28, 2018	DWG SCALE:	1" = 200'	PROJECT NO:	172-367.0002		

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NORTH



Legend

- Targeted Borings
- Elliott Ditch Mileposts
- FSP Borings
- Substitute Sample Points
- Not Sampled
- Substitute Property
- Inaccessible Property
- Accessed Property
- Property Lines
- Elliott Ditch Reach

SOURCE: ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: [HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY](http://gto.arcgis.com/maps/world_imagery). LAST ACCESSED: 8/28/2018
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DATE:	AUGUST 28, 2018	DWG SCALE:	1" = 600'	PROJECT NO:	172-367.0002	4

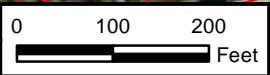
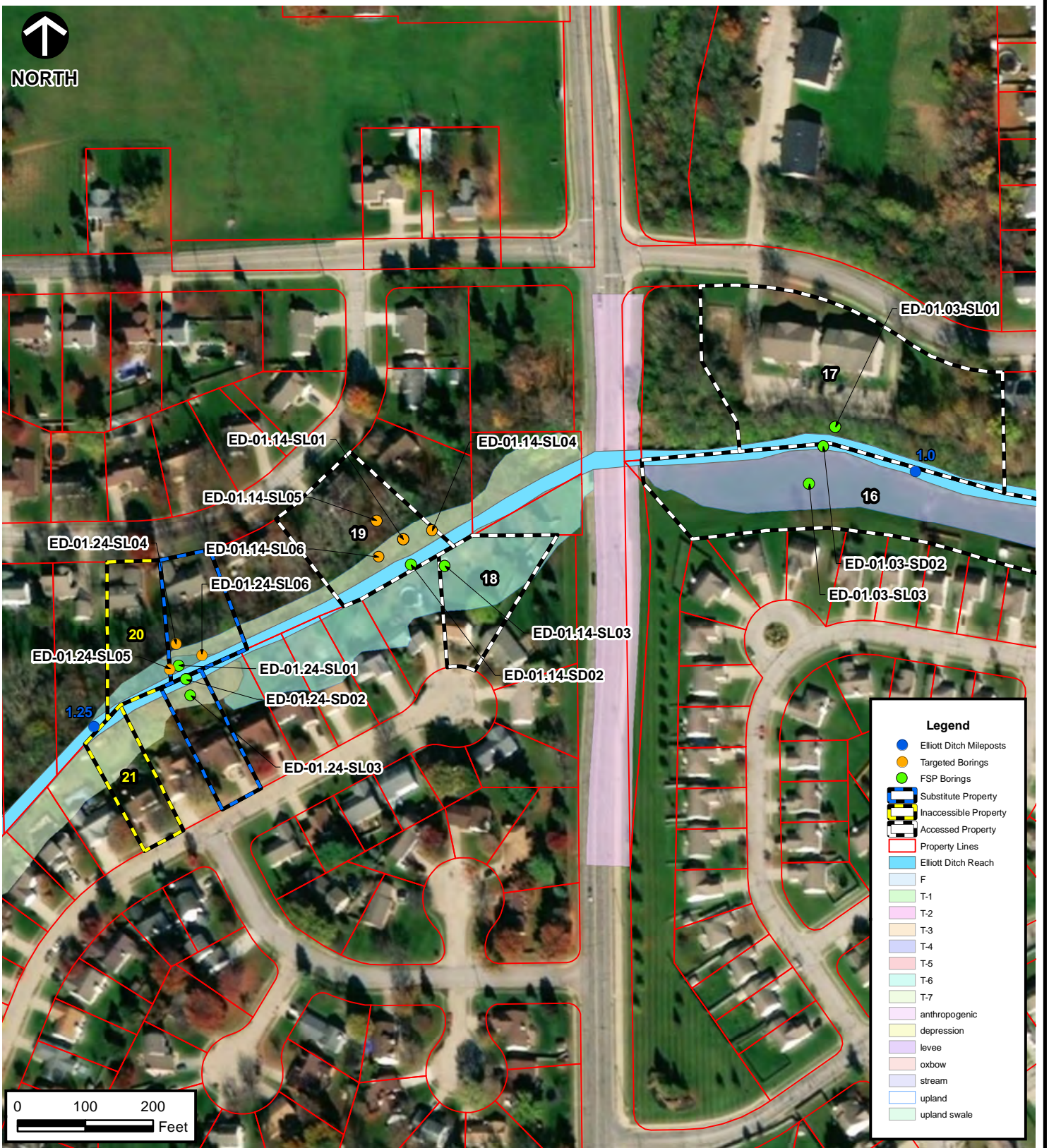
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NORTH

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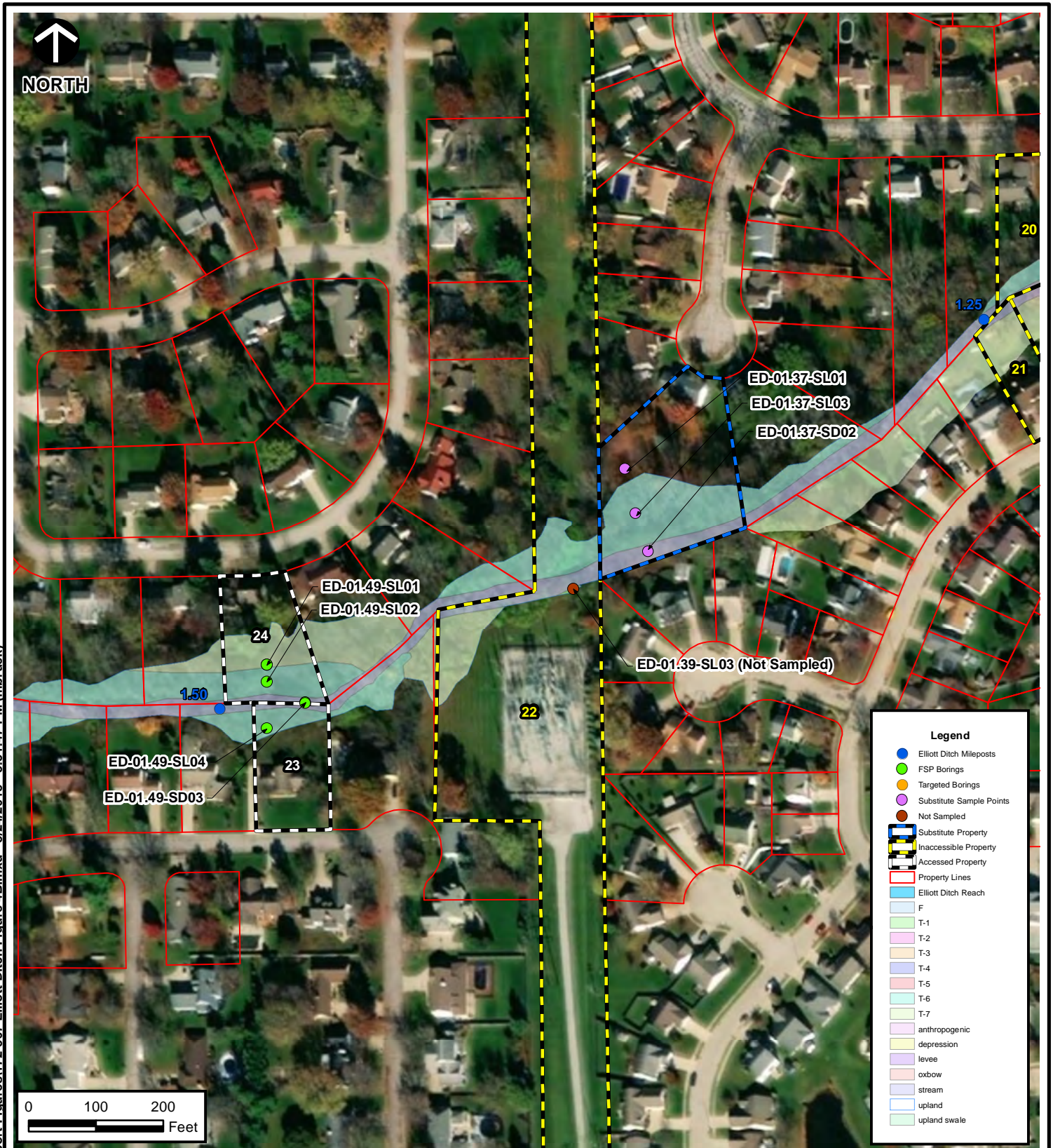
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DATE:	AUGUST 24, 2018	DWG SCALE:	1" = 200'	PROJECT NO:	172-367.0002		

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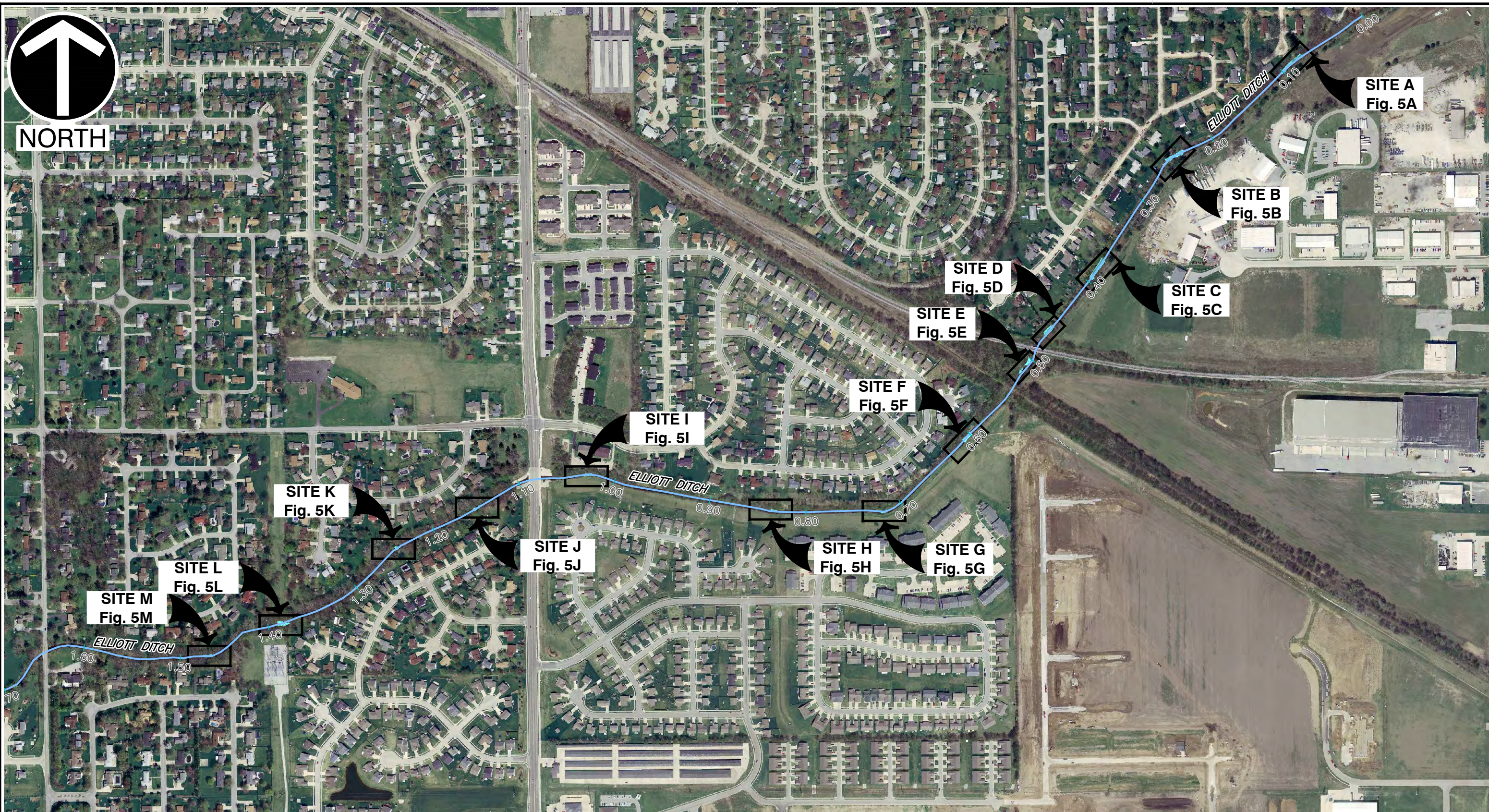
SAMPLE LOCATIONS AND IDENTIFICATIONS

DRAWN BY: DMM	CHECKED BY: JMB	APPROVED BY: TLM*	FIGURE NO: 4B
DATE: AUGUST 24, 2018	DWG SCALE: 1" = 200'	PROJECT NO: 172-367.0002	Signature on File *



NORTH

\\sr-knoxville\projects\2017\172-367-CADD\DWG\EC01\172367-EC01-ISOPACH LAYOUT.dwg(KEY MAP) LS(10/25/2017 9:00 AM - LP: 10/25/2017 9:00 AM - dmartinez)



LEGEND

✕ SEDIMENT POLING LOCATION

REFERENCE

1. SEDIMENT COLLECTION DATA TAKEN BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC BY SURVEY CONDUCTED IN OCTOBER OF 2017.
2. IMAGERY FROM GOOGLE EARTH. IMAGERY DATE: 03/26/2016. DATE DOWNLOADED: 10/23/2017.



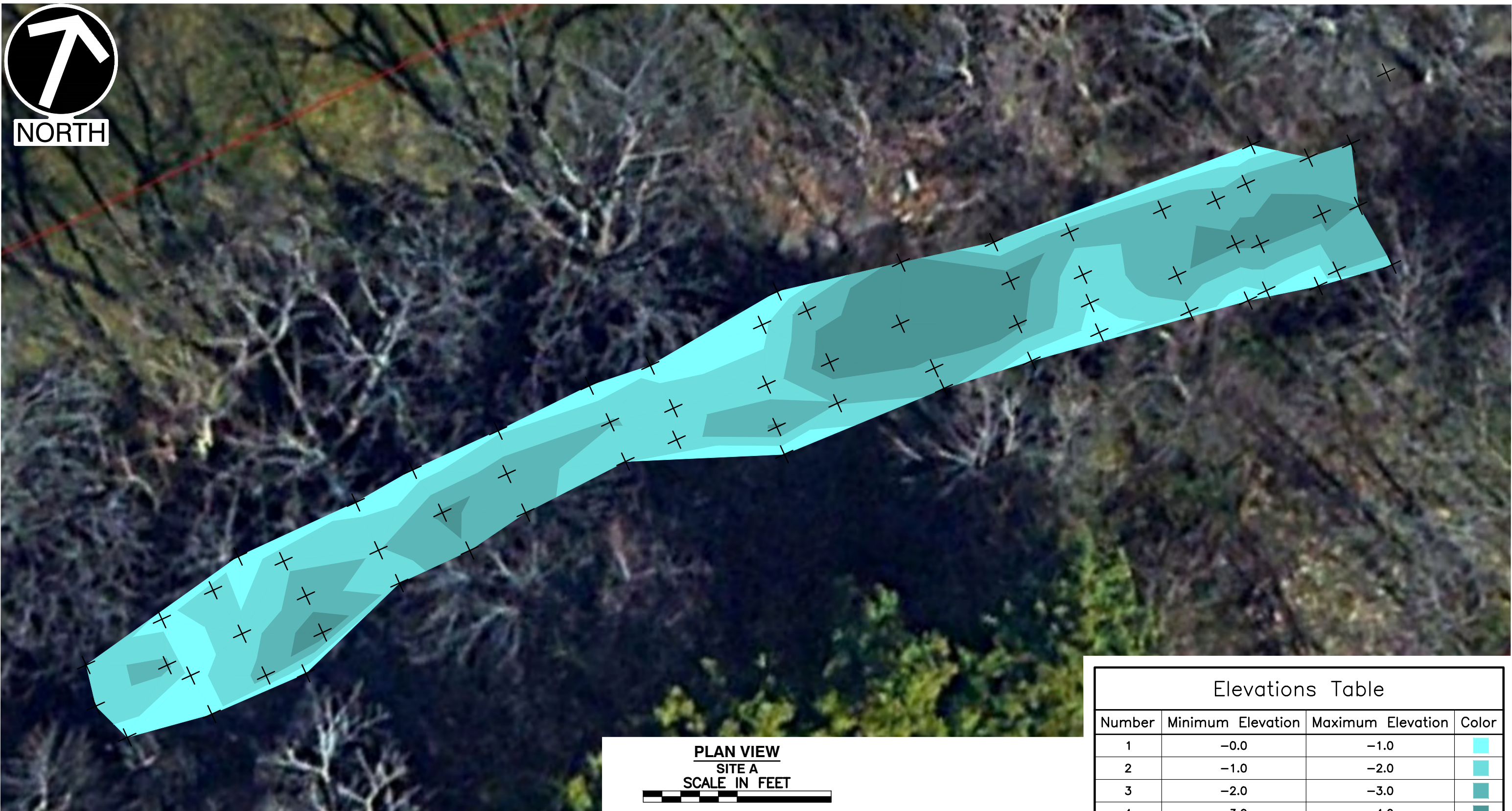

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DRAWN BY:	DAM	CHECKED BY:	NSO
DATE:	OCTOBER 2017	DWG SCALE:	AS NOTED

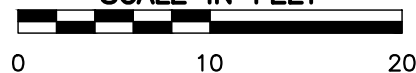
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POLING SUMMARY MAP

APPROVED BY:	JMB	FIGURE NO.:	5
PROJECT NO:	172-367		



PLAN VIEW
SITE A
SCALE IN FEET



Elevations Table

Number	Minimum Elevation	Maximum Elevation	Color
1	-0.0	-1.0	
2	-1.0	-2.0	
3	-2.0	-3.0	
4	-3.0	-4.0	

LEGEND

SEDIMENT POLING LOCATION

REFERENCE

1. SEDIMENT COLLECTION DATA TAKEN BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC BY SURVEY CONDUCTED IN OCTOBER OF 2017.
2. IMAGERY FROM GOOGLE EARTH. IMAGERY DATE: 03/26/2016. DATE DOWNLOADED: 10/23/2017.



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SEDIMENT POLING SITE A

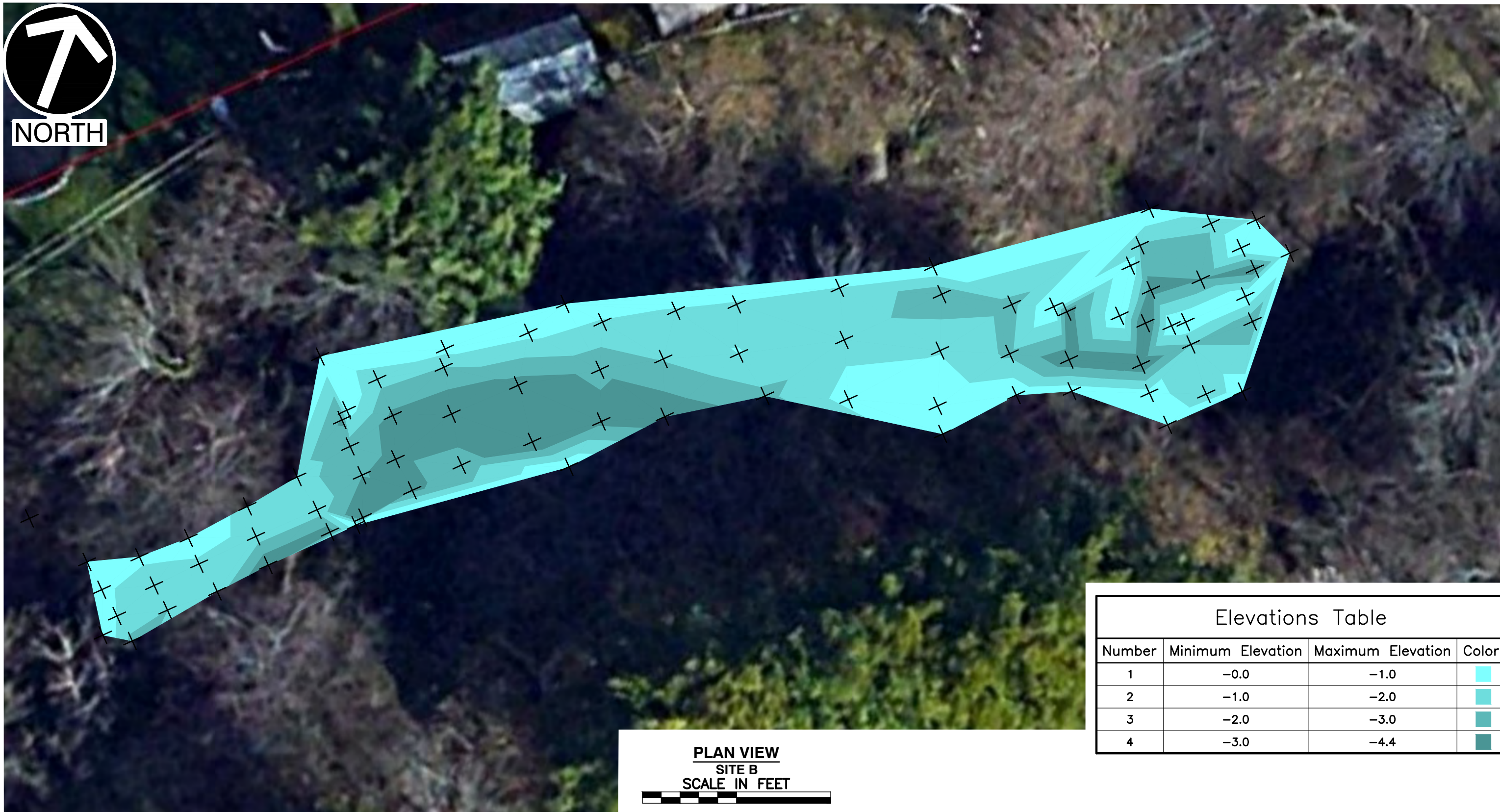
DRAWN BY: DAM CHECKED BY: NSO APPROVED BY: JMB FIGURE NO.:
DATE: OCTOBER 2017 DWG SCALE: AS NOTED PROJECT NO: 172-367

5A

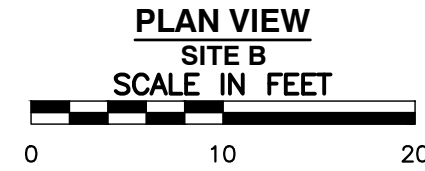
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NORTH



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-0.0	-1.0	
2	-1.0	-2.0	
3	-2.0	-3.0	
4	-3.0	-4.4	



LEGEND

X SEDIMENT POLING LOCATION

REFERENCE

1. SEDIMENT COLLECTION DATA TAKEN BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC BY SURVEY CONDUCTED IN OCTOBER OF 2017.
2. IMAGERY FROM GOOGLE EARTH. IMAGERY DATE: 03/26/2016. DATE DOWNLOADED: 10/23/2017.



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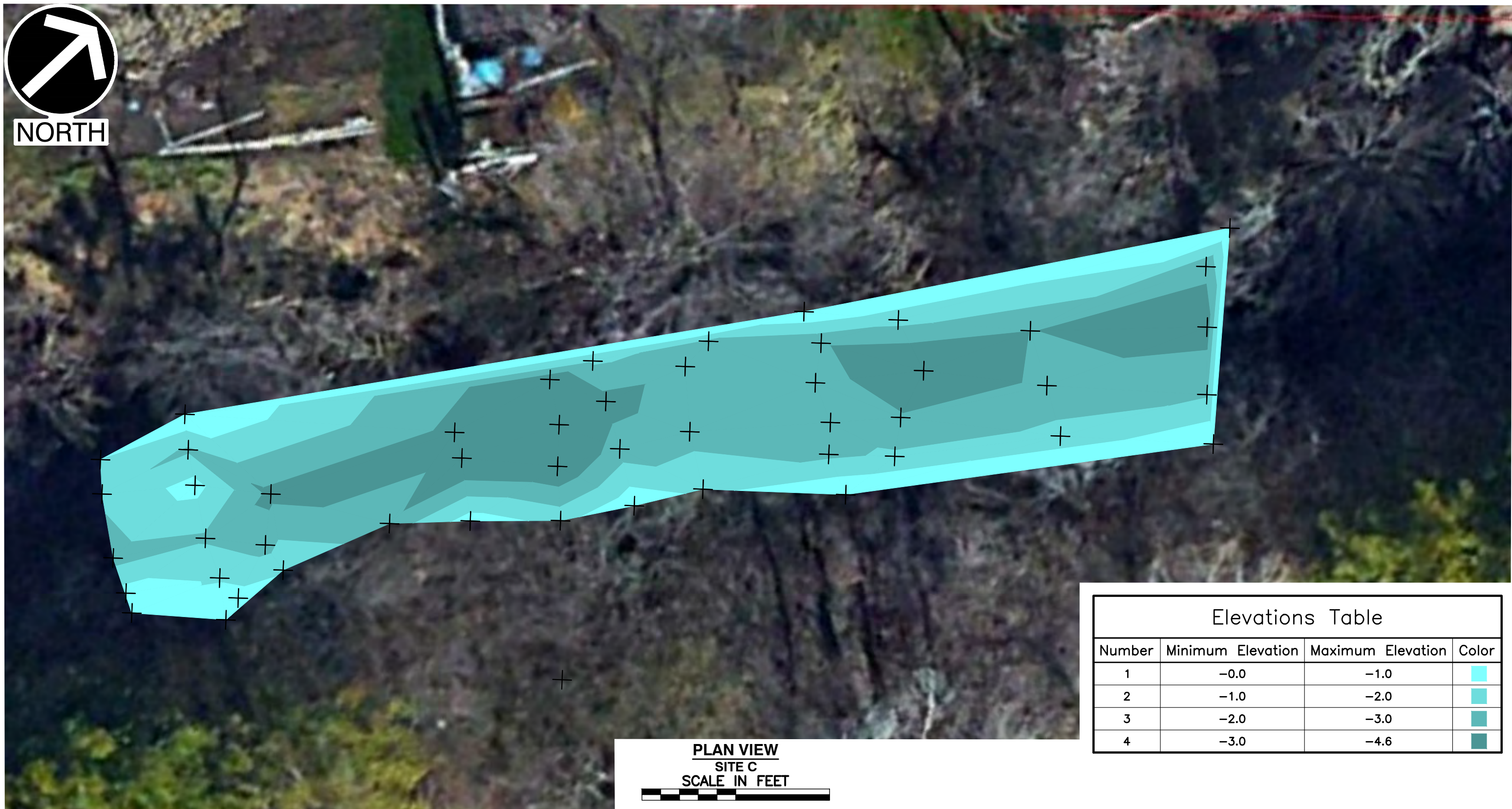
SEDIMENT POLING SITE B

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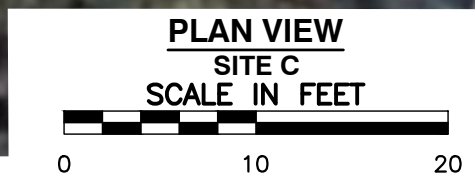
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NORTH



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-0.0	-1.0	
2	-1.0	-2.0	
3	-2.0	-3.0	
4	-3.0	-4.6	



LEGEND

✕ SEDIMENT POLING LOCATION

REFERENCE

1. SEDIMENT COLLECTION DATA TAKEN BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC BY SURVEY CONDUCTED IN OCTOBER OF 2017.
2. IMAGERY FROM GOOGLE EARTH. IMAGERY DATE: 03/26/2016. DATE DOWNLOADED: 10/23/2017.

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ELLIOTT DITCH
FIELD SAMPLING REPORT
LAFAYETTE, INDIANA

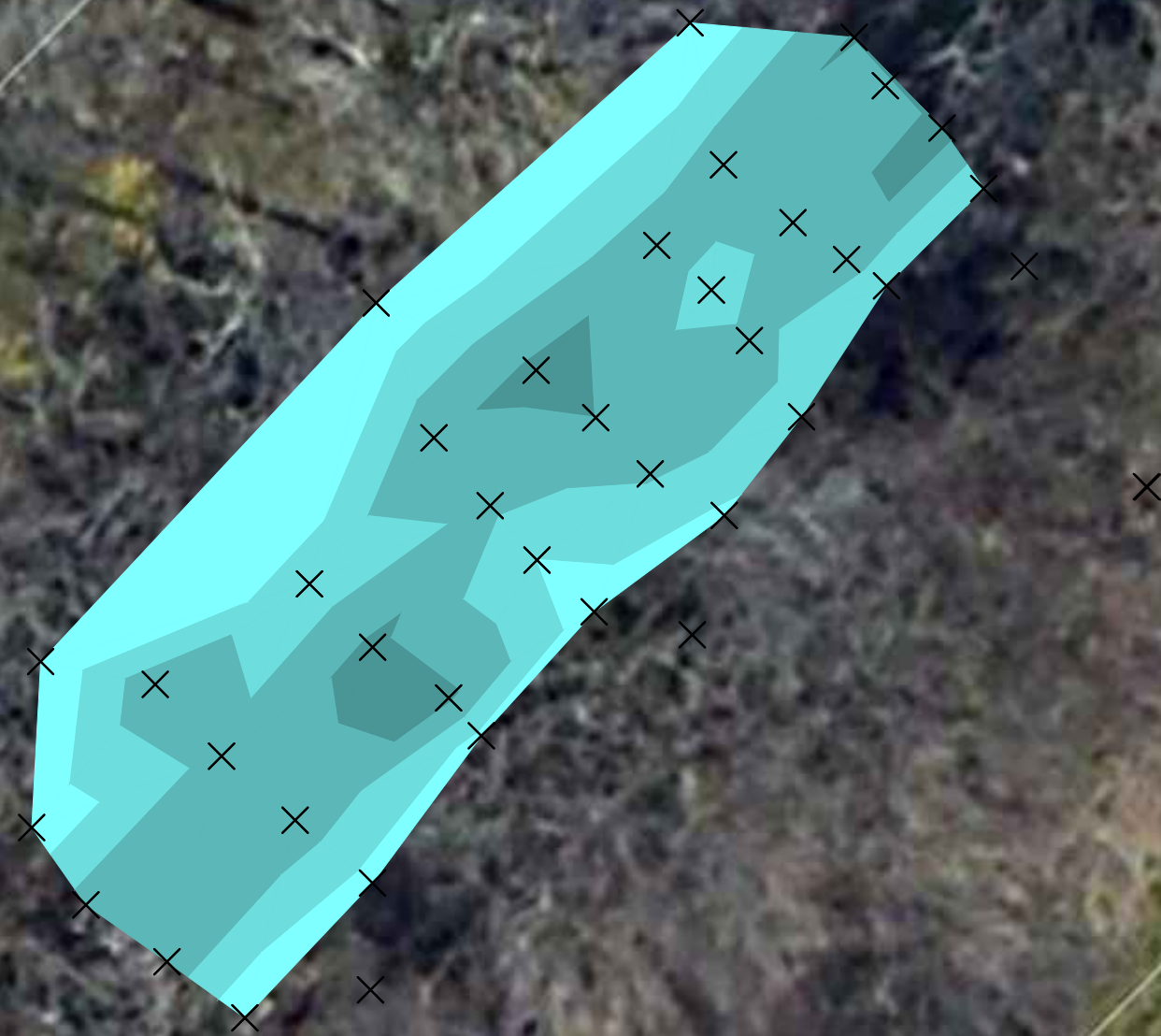
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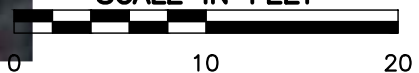
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NORTH



PLAN VIEW
SITE D
SCALE IN FEET



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-0.0	-1.0	
2	-1.0	-2.0	
3	-2.0	-3.0	
4	-3.0	-3.5	

LEGEND

X SEDIMENT POLING LOCATION

REFERENCE

1. SEDIMENT COLLECTION DATA TAKEN BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC BY SURVEY CONDUCTED IN OCTOBER OF 2017.
2. IMAGERY FROM GOOGLE EARTH. IMAGERY DATE: 03/26/2016. DATE DOWNLOADED: 10/23/2017.



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SEDIMENT POLING SITE D

DRAWN BY: DAM	CHECKED BY: NSO	APPROVED BY: JMB	FIGURE NO.:
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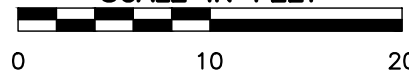


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PLAN VIEW
SITE E
SCALE IN FEET



Elevations Table			
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2	-1.0	-2.0	
3	-2.0	-3.0	

LEGEND

✕ SEDIMENT POLING LOCATION

REFERENCE

1. SEDIMENT COLLECTION DATA TAKEN BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC BY SURVEY CONDUCTED IN OCTOBER OF 2017.
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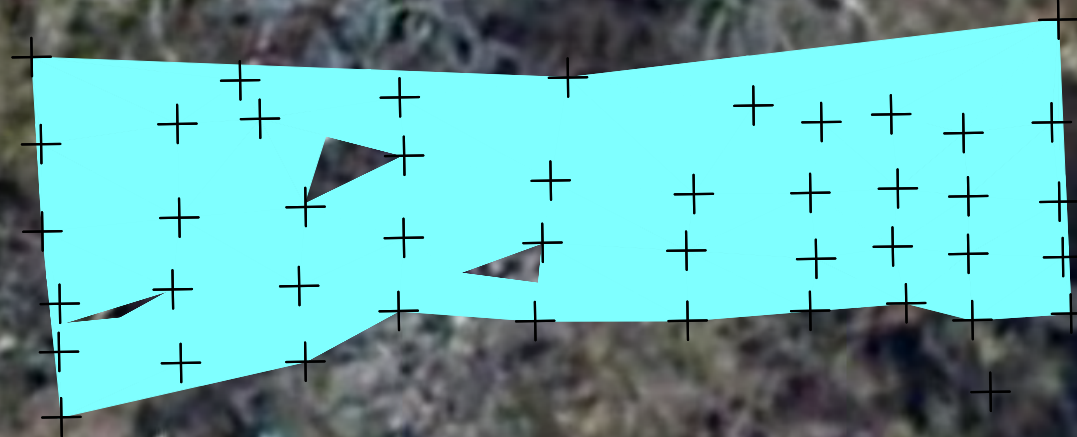
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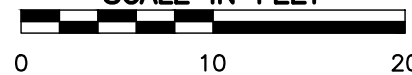
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NORTH



PLAN VIEW
SITE F
SCALE IN FEET



Elevations Table			
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1	-0.0	-5.0	
2	-1.0	-1.5	
3	-1.5	-2.0	
4	-2.0	-2.6	

LEGEND

✕ SEDIMENT POLING LOCATION

REFERENCE

1. SEDIMENT COLLECTION DATA TAKEN BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC BY SURVEY CONDUCTED IN OCTOBER OF 2017.
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SEDIMENT POLING SITE F

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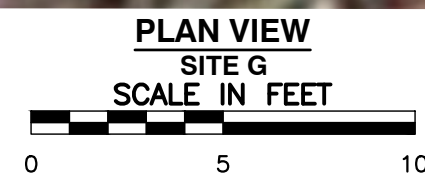
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NORTH



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-0.0	-1.0	
2	-1.0	-2.0	
3	-2.0	-3.0	
4	-3.0	-4.4	



LEGEND

X SEDIMENT POLING LOCATION

REFERENCE

1. SEDIMENT COLLECTION DATA TAKEN BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC BY SURVEY CONDUCTED IN OCTOBER OF 2017.
2. IMAGERY FROM GOOGLE EARTH. IMAGERY DATE: 03/26/2016. DATE DOWNLOADED: 10/23/2017.



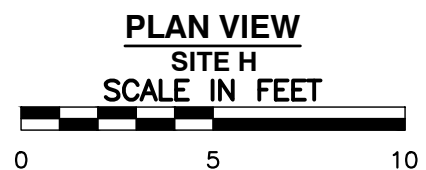
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SEDIMENT POLING SITE G

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DATE: OCTOBER 2017	DWG SCALE: AS NOTED	PROJECT NO: 172-367	5G

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Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
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2	-0.2	-0.4	
3	-0.4	-0.6	
4	-0.6	-0.8	

LEGEND

✕ SEDIMENT POLING LOCATION

REFERENCE

1. SEDIMENT COLLECTION DATA TAKEN BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC BY SURVEY CONDUCTED IN OCTOBER OF 2017.
2. IMAGERY FROM GOOGLE EARTH. IMAGERY DATE: 03/26/2016. DATE DOWNLOADED: 10/23/2017.

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SEDIMENT POLING SITE H

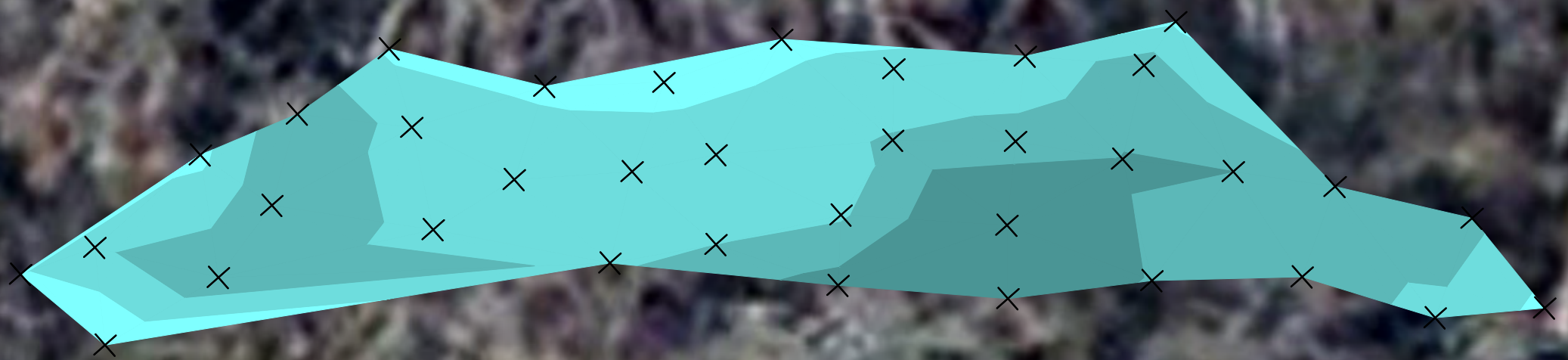
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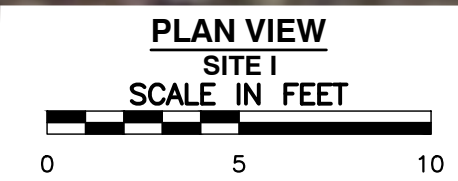


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Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-0.0	-0.5	
2	-0.5	-1.0	
3	-1.0	-1.5	
4	-1.5	-2.4	



LEGEND

X SEDIMENT POLING LOCATION

REFERENCE

1. SEDIMENT COLLECTION DATA TAKEN BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC BY SURVEY CONDUCTED IN OCTOBER OF 2017.
2. IMAGERY FROM GOOGLE EARTH. IMAGERY DATE: 03/26/2016. DATE DOWNLOADED: 10/23/2017.



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FIELD SAMPLING REPORT
LAFAYETTE, INDIANA

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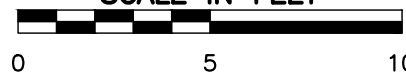
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DATE: OCTOBER 2017	DWG SCALE: AS NOTED	PROJECT NO: 172-367	51



NORTH



PLAN VIEW
SITE J
SCALE IN FEET



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-0.0	-0.4	
2	-0.4	-0.6	
3	-0.6	-0.8	
4	-0.8	-1.8	

LEGEND

✕ SEDIMENT POLING LOCATION

REFERENCE

1. SEDIMENT COLLECTION DATA TAKEN BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC BY SURVEY CONDUCTED IN OCTOBER OF 2017.
2. IMAGERY FROM GOOGLE EARTH. IMAGERY DATE: 03/26/2016. DATE DOWNLOADED: 10/23/2017.



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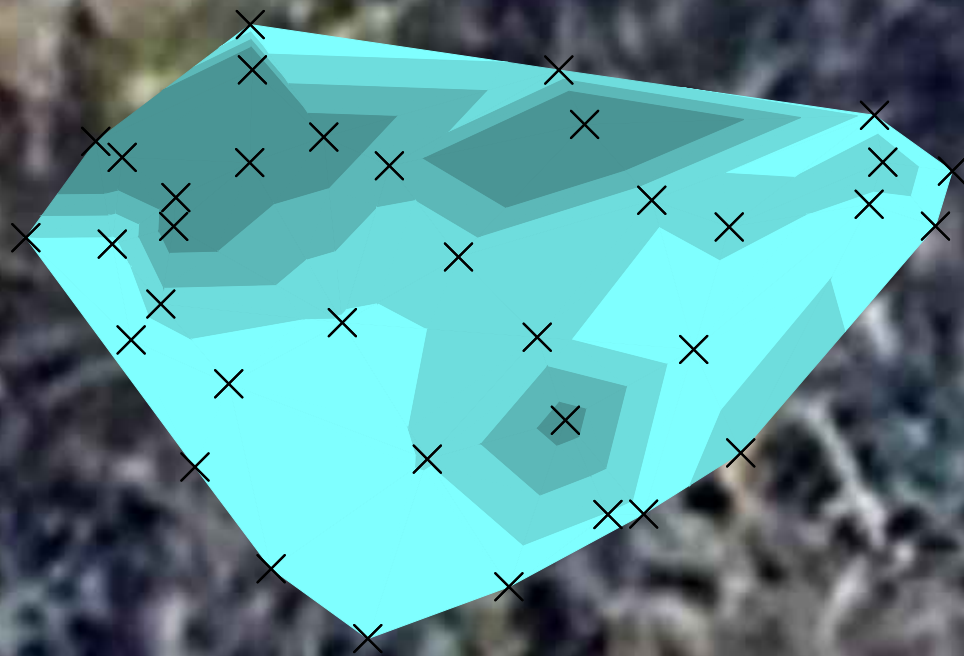
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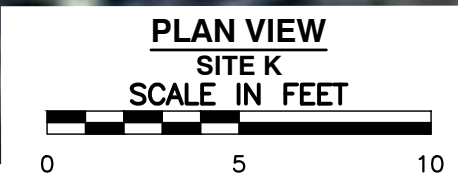


X X

X

X

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1	-0.0	-0.5	
2	-0.5	-1.0	
3	-1.0	-1.5	
4	-1.5	-3.0	



LEGEND

X SEDIMENT POLING LOCATION

REFERENCE

1. SEDIMENT COLLECTION DATA TAKEN BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC BY SURVEY CONDUCTED IN OCTOBER OF 2017.
2. IMAGERY FROM GOOGLE EARTH. IMAGERY DATE: 03/26/2016. DATE DOWNLOADED: 10/23/2017.

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FIELD SAMPLING REPORT
LAFAYETTE, INDIANA

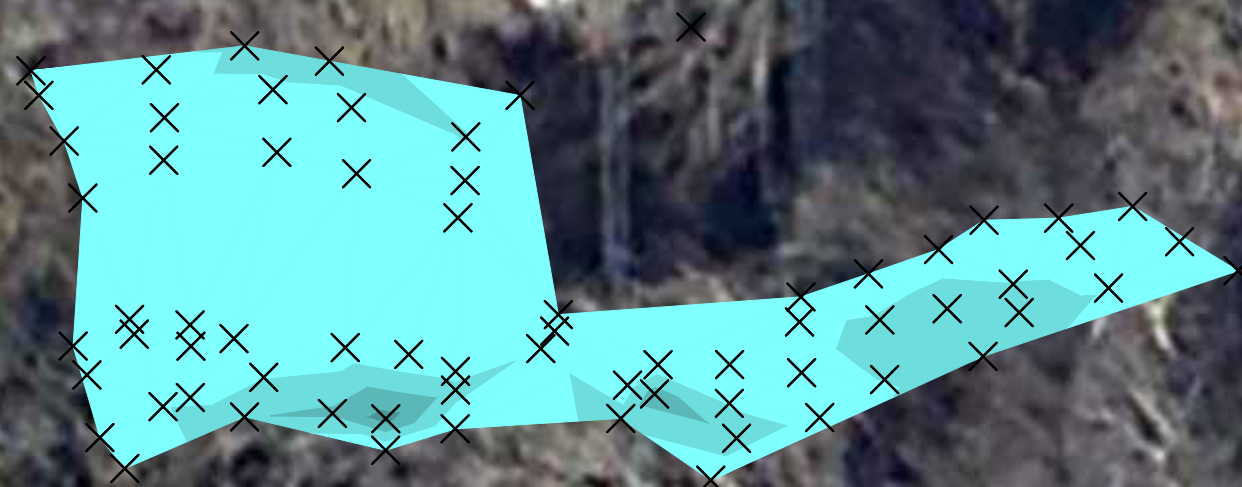
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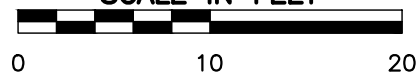
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NORTH



PLAN VIEW
SITE L
SCALE IN FEET



Elevations Table

Number	Minimum Elevation	Maximum Elevation	Color
1	-0.0	-1.0	
2	-1.0	-2.0	
3	-2.0	-3.0	
4	-3.0	-3.4	

LEGEND

X SEDIMENT POLING LOCATION

REFERENCE

1. SEDIMENT COLLECTION DATA TAKEN BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC BY SURVEY CONDUCTED IN OCTOBER OF 2017.
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FIELD SAMPLING REPORT
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SEDIMENT POLING SITE L

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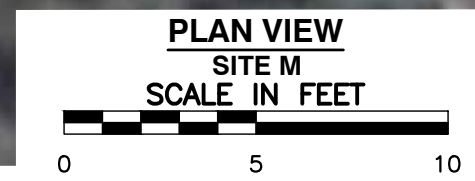


NORTH

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Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-0.0	-0.2	
2	-0.2	-0.5	
3	-0.5	-1.0	
4	-1.0	-1.3	



LEGEND

X SEDIMENT POLING LOCATION

REFERENCE

1. SEDIMENT COLLECTION DATA TAKEN BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC BY SURVEY CONDUCTED IN OCTOBER OF 2017.
2. IMAGERY FROM GOOGLE EARTH. IMAGERY DATE: 03/26/2016. DATE DOWNLOADED: 10/23/2017.



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LAFAYETTE, INDIANA

SEDIMENT POLING SITE M

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DATE: OCTOBER 2017	DWG SCALE: AS NOTED	PROJECT NO: 172-367	5M

APPENDIX I
STUDY AREA ACCESS PLAN

**STUDY AREA ACCESS PLAN
REACHES 1, 2, AND 3 OF ELLIOTT DITCH
IMPLEMENTATION OF THE FIELD SAMPLING PLAN**

PREPARED FOR:



ARCONIC

**ARCONIC LAFAYETTE OPERATIONS
3131 EAST MAIN STREET
LAFAYETTE, INDIANA**

PREPARED BY:

**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
2704 CHEROKEE FARM WAY, SUITE 101
KNOXVILLE, TENNESSEE 37920**

CEC PROJECT 172-367.0002

JULY 2017



Civil & Environmental Consultants, Inc.

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1.2 ELLIOTT DITCH BACKGROUND.....	1
1.3 GENERAL AREA DESCRIPTION.....	2
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- Table 1. Properties Expected to be Accessed in Support of Rodding
Table 2. Properties Expected to be Accessed in Support of Sampling

FIGURES

- Figure 1. Elliott Ditch Study Area
Figure 2. Properties to Access Milepost 0.0 to 1.0
Figure 3. Properties to Access Milepost 1.0 to 1.59

APPENDICES

- Appendix A. Example E-Mail or Mail Correspondence
Appendix B. Elliott Ditch Field Sampling Fact Sheet
Appendix C. Example Access Agreement

1.0 INTRODUCTION

1.1 PURPOSE

The purpose of this Study Area Access Plan, or Access Plan for short, is to provide the framework for engaging private property owners whose parcels contain proposed upland soil sampling locations or preferred access points to Elliott Ditch in support of implementing the Field Sampling Plan (FSP). This plan will specify the strategy and media to be used when engaging private property owners. An Access Agreement prepared and executed by Arconic, Inc. (Arconic) will be used as the vehicle to authorize members of the project team to access private property for either reason. The Access Plan will also identify local government officials that will be informed of the project such that they can either answer questions from concerned citizens or direct them to members of the project team. Implementation of this Access Plan and procurement of the necessary Access Agreements will occur prior to the implementation of field tasks associated with the Elliott Ditch FSP.

1.2 ELLIOTT DITCH BACKGROUND

The project setting includes an approximate 1.59-mile section of Elliott Ditch starting at Arconic Outfall 001 (Milepost 0.0) and ending at Milepost 1.59. This represents the portion of the stream that appears to have been anthropogenically straightened and channelized over time. Elliott Ditch receives industrial discharges from the Arconic Lafayette Operations Outfall 001. The discharges include treated sanitary and industrial process water, as well as storm water runoff from the facility. Polychlorinated biphenyls (PCBs) are present in the Elliott Ditch watershed from historical releases at Outfall 001 and extend to the County Road 350 South Bridge based on samples collected by Anchor QEA in 2004 and 2010. The PCB concentrations range from less than 1 milligram per Kilogram (mg/Kg) to 27 mg/Kg at the previously sampled locations. The horizontal and vertical extent of PCB impacts are not currently delineated within the channel or floodplain. Arconic is subject to Resource Conservation and Recovery Act (RCRA) Corrective Action (CA) per the Indiana Department of Environmental Management (IDEM) letter (dated February 11, 2011). As such, the FSP was prepared by TetraTech CES and approved by IDEM

and the United States Environmental Protection Agency (EPA) Region 5 in support of the assessment of PCB impacts to Elliott Ditch.

1.3 GENERAL AREA DESCRIPTION

Elliott Ditch resides roughly a mile to the south of the Arconic Lafayette Operations in Lafayette, Indiana. The general area includes residential, commercial, and industrial developments. Bordering the stream in the 1.59-mile project area is primarily residential properties to the north and to the south after the railroad crossing near the Milepost 0.5. To the south of Elliott Ditch prior to the railroad crossing are properties used for commercial and industrial purposes. The residential properties appear to include both single-family dwellings as well as apartment complexes. Few properties appear to have paved access from local roads to the backsides of the dwellings, near Elliott Ditch. Close to the Milepost 1.4, there is an overhead power line right-of-way that includes a substation on the southern bank of the stream.

The dense residential development and few public access points limit access to the stream bank. Once at the stream bank, access to the stream itself is further limited by the steep banks associated with the anthropogenic straightening and overgrown vegetation within the study area. Please refer to Figure 1 for the portion of Elliott Ditch included in the implementation of this FSP and an overview of the general area.

1.4 FIELD SAMPLING PLAN SUMMARY

The FSP includes two separate field tasks. The first task includes rodding within the stream channel to assess sediment thicknesses and extents. This task will require only a few access points since the field staff will remain within the footprint of Elliott Ditch for the majority of the effort. Access in support of this task will target public points, where available, then rely on permissions from private property owners as a secondary option.

The second field effort includes the collection of soil and sediment samples from a series of transects situated throughout the targeted 1.59-mile stretch of Elliott Ditch. The transects run

perpendicular to flow in the stream and, by design, target soil and sediment from different geomorphic surfaces. Many of the upland soil sampling locations are situated outside of the stream bank on private property and will require access in order to collect samples.

2.0 ACCESS PLAN

The proposed Access Plan will be followed in support of implementing the FSP. Deviations from the plan, when necessary, will be communicated to Arconic, local government, and private property owners to maintain trustworthy relationships and prevent against unauthorized access.

2.1 CONSIDERATIONS

There are a number of factors that were taken into consideration when preparing this Access Plan, as identified in the following. Each of the following factors was used to support the development of a plan that prioritizes the safety of CEC employees and engages and builds trustworthy relationships with targeted, private property owners and local government:

- Safety
- Public Access Locations
- Private Access Locations
- Proposed Sampling Locations
- Vegetation and Streambank Slope
- Field Task Requirements

2.2 RODDING

The rodding task will require CEC field staff to mobilize surveying equipment and rods into the stream to collect sediment thickness information. Ideally, the field staff would be able to park relatively close to Elliott Ditch to don chest waders and prepare equipment before accessing the stream. Based on a review of property information provided by the Tippecanoe County GIS Department, public access points on this stretch of Elliott Ditch do not exist. Therefore, access via private property will be required to support the rodding task. CEC will access Elliott Ditch in support of the rodding task from parcels that contain upland soil sampling locations such that additional access agreements are not required. The parcels targeted for use are identified in the following table. These parcels may provide paved areas near the stream that are ideal in support of this task. Other parcels with access agreements will be used if necessary.

Table 1. Properties Expected to be Accessed in Support of Rodding
Study Area Access Plan
Elliott Ditch Implementation of Field Sampling Plan
July 2017

Map ID	Parcel Address	City/Zip	Owner
5	108 COLDBROOK DR	Lafayette, 47909	BROOKS EDITH D
8	195 COLDBROOK CT	Lafayette, 47909	GRAYSON DANIEL C I SUSAN
11	50 SOUTHAVEN CT	Lafayette, 47909	BETTY BILLY W & VICKI J
15	2301 WINTERSET DR	Lafayette, 47909	FISHER BETTY M & EHRIE LISA A
17	1851 SUMMERTIME TRL	Lafayette, 47909	BUCKLEY ROBERT W TRUST ANN TRUST
20	1325 WINDMILL DR	Lafayette, 47909	KOOPMAN JACK H
22	300S	Lafayette, 47909	PSI ENERGY INC

2.3 SOIL AND SEDIMENT SAMPLING

Each of the 13 transects contain soil sampling locations on private property on both sides of the stream bank. Figures 2 and 3 show the sampling locations and the boundaries for the private properties on which they reside. Access onto these private properties will be required in order to collect the specified samples. Therefore, access agreements will be needed from at least the 21 private property owners identified in Table 2. One parcel did not contain ownership information in the Tippecanoe County GIS Department provided information. CEC will use other resources, i.e. phone books, appraisal/tax records, etc., in an attempt to identify the owner of this parcel. This parcel could have an owner other than those currently identified and require an additional agreement. There is a sampling transect proposed at the overhead power line right-of-way near Milepost 1.4 and the utility company has ownership on both sides of the bank. Also, the Mill Creek Home Owners Association (MCHOA) owns four parcels that contain sampling locations. It is expected that a single access agreement referencing each of the targeted parcels will be obtained from each the power company and the MCHOA. Should the proposed upload soil sampling locations be moved based on the geomorphological conditions encountered such that they reside on other private properties or if additional sample locations on additional private properties are required to delineate the extent of impacts, additional agreements will be needed.

Table 2. Properties Expected to be Accessed in Support of Sampling
Study Area Access Plan
Elliott Ditch Implementation of Field Sampling Plan
July 2017

Map ID	Parcel Address	City/Zip	Owner	Owner Mailing Address
1	50 OLYMPIA CT	Lafayette, 47909	RATHJE DAVID W ETAL	2454 N 27th St., Decatur, IL 62526
2	21 BRADY CT	Lafayette, 47909	SMITH KYLE & ERIKA R	Same as Parcel Address
3	30 OLYMPIA CT	Lafayette, 47909	R & B MANAGEMENT LLC	3223 Olympia Dr., Lafayette, IN 47909
4	3116 OLYMPIA DR	Lafayette, 47909	WINSTEAD LLC	3223 Olympia Dr., Lafayette, IN 47909
5	108 COLDBROOK DR	Lafayette, 47909	BROOKS EDITH D	Same as Parcel Address
6	3107 OLYMPIA DR	Lafayette, 47909	LOCAL UNION #2317 UAW BUILDING CORP	Same as Parcel Address
7	155 COLDBROOK CT	Lafayette, 47909	HOLWERDA MYRON D CAROL S	Same as Parcel Address
8	195 COLDBROOK CT	Lafayette, 47909	GRAYSON DANIEL C I SUSAN	Same as Parcel Address
9	S 250E	Lafayette, 47909	ABS REAL ESTATE LLC	3460 Concord Rd., Lafayette, IN 47909
10	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOMEOWNERS ASSOC. INC	PO Box 2332, West Lafayette, IN 47996
11	50 SOUTHAVEN CT	Lafayette, 47909	BETTY BILLY W & VICKI J	Same as Parcel Address
12	2329 WINTERSET DR	Lafayette, 47909	KENNEDY TAMARA E	Same as Parcel Address
13	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOMEOWNERS ASSOC. INC	PO Box 2332, West Lafayette, IN 47996
14	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOMEOWNERS ASSOC. INC	PO Box 2332, West Lafayette, IN 47996
15	2301 WINTERSET DR	Lafayette, 47909	FISHER BETTY M & EHRIE LISA A	Same as Parcel Address
16	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOME OWNERS ASSOC. INC	PO Box 2332, West Lafayette, IN 47996
17	1851 SUMMERTIME TRL	Lafayette, 47909	BUCKLEY ROBERT W TRUST ANN TRUST	1842 Summertime Trail Ste 17, Lafayette, IN 47909
18	3114 THOMAS DR	Lafayette, 47909	BROOKS RYAN A & SHANNON D	Same as Parcel Address
19	1337 WINDMILL DR	Lafayette, 47909	ADE GEORGE L KATY L	Same as Parcel Address
20	1325 WINDMILL DR	Lafayette, 47909	KOOPMAN JACK H	Same as Parcel Address
21	3202 THOMAS DR	Lafayette, 47909	JUDGE RUSSELL R CYNTHIA A	Same as Parcel Address
22	300S	Lafayette, 47909	PSI ENERGY INC	550 S Tryon St., Charlotte, NC 28202
23	1004 N SOUTHERNVIEW DR	Lafayette, 47909	STEWART C ROBERT & KAREN J CO-TTEES	Same as Parcel Address
24	3555 CANTERBURY DR	Lafayette, 47909	BOLLOCK JAMES M LORI L	Same as Parcel Address

CEC will access Elliott Ditch from these private properties in order to collect sediment and soil samples within its bank. This will prevent field staff from encountering unnecessary safety concerns by having to carry sampling equipment while wading through the stream.

2.4 LOCAL GOVERNMENT OUTREACH

Prior to engaging the private property owners, CEC will call local government officials. The targeted portion of Elliott Ditch resides in Lafayette, Indiana, and City of Lafayette government officials will be briefed on the project. Below is a list of the City of Lafayette Departments that will be contacted in support of this Access Plan.

- Engineering and Public Works
- Fire Department
- Parks and Recreation
- Police Department
- Stormwater Programs
- Mayor's Office
- City Council

The process will include a phone call to introduce CEC and the project, and include a follow-up e-mail with the Fact Sheet. CEC will also provide City of Lafayette officials the contact information of key project team members to be points of contact for follow-up questions. Meetings with local government officials will be provided upon their request.

2.5 PRIVATE PROPERTY OWNER OUTREACH

Private property owners from which CEC will request access will first be engaged either through e-mail (if an e-mail address is known) or mail. This initial correspondence will include a brief introductory letter introducing the purpose of the project, project participants (Arconic, CEC, IDEM, and USEPA), outlining the FSP, and identifying the week that field staff will be canvassing the area for face-to-face introductions. It will also include the Fact Sheet that Arconic has developed with coordination with the IDEM. Please refer to Appendix A for example e-mail or mail correspondence and Appendix B for the Fact Sheet.

CEC will follow-up with phone calls (if phone numbers are available) to property owners roughly two weeks after the mailings to try to schedule a brief meeting. Staff will be in Lafayette over the course of a week to hold these face-to-face meetings. The meeting will be used to introduce CEC staff to the private property owners, answer questions, and begin the development of a trustworthy relationship. The follow-up meeting will also be used to review the Access Agreement, as provided in Appendix C. CEC will attempt to obtain signed Access Agreements from each of the private property owners during the meetings; however, in all likelihood, follow-up e-mails or phone calls will likely be needed in support of this effort. In the event CEC encounters private property owners opposed to the project, intervention by other project participants may be needed or alternative sampling locations on other parcels may need to be considered.

3.0 RECORD KEEPING

CEC will keep a repository on its network of communications related to this Access Plan. It is expected to include at a minimum: e-mails, notes from important phone calls and meetings, and copies of executed Access Agreements. This information can be made available to Arconic upon request.

FIGURES



NORTH



Arconic Facility

Elliott Ditch

Outfall 001

0.0

0.25

0.50

0.75

1.0

1.25

1.50

1.59

Study Area

Legend



Outfall 001



Elliott Ditch Mileposts



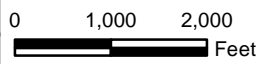
Study Area



Arconic Facility



Elliott Ditch



SOURCE: ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY. LAST ACCESSED: 7/24/2017
IMAGE DATE: 03/12/2011



Civil & Environmental Consultants, Inc.

2704 Cherokee Farm Way, Suite 101 Knoxville, TN 37920

865-977-9997 - 865-774-7767

www.cecinc.com

ARCONIC INC. - LAFAYETTE OPERATIONS
ELLIOTT DITCH ACCESS PLAN
FIELD SAMPLING
LAFAYETTE, INDIANA

ELLIOTT DITCH STUDY AREA

DRAWN BY:

DMM

CHECKED BY:

JMB

APPROVED BY:

TLM*

FIGURE NO:

DATE:

JULY 24, 2017

DWG SCALE:

1" = 2,000'

PROJECT NO:

172-367.0002

1

Signature on File *

P:\2017\172-367-GIS\Maps\172-367-Elliott Ditch Figure 1.mxd - 7/24/2017 - 3:20:20 PM (mbruck)



NORTH



\\svr-knoxville\projects\2017\172-367-GIS\Maps\172-367 Elliott Ditch Figure 2.mxd - 7/20/2017 - 10:27:45 AM (mbruck)

SOURCE: ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY. LAST ACCESSED: 7/20/2017
IMAGE DATE: 03/12/2011



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ARCONIC INC. - LAFAYETTE OPERATIONS ELLIOTT DITCH ACCESS PLAN FIELD SAMPLING LAFAYETTE, INDIANA

PROPERTIES TO ACCESS MILEPOST 0.0 TO 1.0

DRAWN BY:	DMM	CHECKED BY:	JMB	APPROVED BY:	TLM*	FIGURE NO:	2
DATE:	JULY 20, 2017	DWG SCALE:	1" = 600'	PROJECT NO:	172-367.0002		

Signature on File *



NORTH



Legend

- Elliott Ditch Mileposts
- Sampling Points
- Parcels Requiring Access
- Property Lines
- Elliott ditch

SOURCE: ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: [HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY](http://gto.arcgis.com/maps/world_imagery). LAST ACCESSED: 8/7/2017
 IMAGE DATE: 03/12/2011



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ARCONIC INC. - LAFAYETTE OPERATIONS ELLIOTT DITCH ACCESS PLAN FIELD SAMPLING LAFAYETTE, INDIANA

PROPERTIES TO ACCESS MILEPOST 1.0 TO 1.59

DRAWN BY:	DMM	CHECKED BY:	JMB	APPROVED BY:	TLM*	FIGURE NO:	3
DATE:	AUGUST 07, 2017	DWG SCALE:	1" = 600'	PROJECT NO:	172-367.0002		

Signature on File *

P:\2017\172-367-GIS\Maps\172-367_Elliott Ditch Figure 3.mxd - 8/7/2017 - 2:33:40 PM (mbruck)

APPENDICES

APPENDIX A
EXAMPLE E-MAIL OR MAIL CORRESPONDENCE



August 7, 2017

Property Owner Name
Property Address
Lafayette, Indiana 47905

Dear Property Owner:

Subject: Request for Property Access Coordination
Arconic Lafayette Operations – Elliott Ditch Field Sampling

Civil & Environmental Consultants, Inc. (CEC) on behalf of Arconic Inc. (Arconic), formerly Alcoa Inc., is providing this **[letter or e-mail]** to notify you of a need to access your property in support of an environmental assessment of Elliott Ditch (Project). The assessment is required by and conducted with oversight and approval from the United States Environmental Protection Agency (USEPA) Region 5 and the Indiana Department of Environmental Management (IDEM).

Elliott Ditch, located adjacent to your property, is a tributary to Wea Creek, which is a tributary to the Wabash River, downstream of Lafayette, Indiana. In addition to its base flow, Elliott Ditch receives industrial discharges from various industries, including an outfall from the Arconic Lafayette Operations (Facility). Historically, polychlorinated biphenyls (PCBs) were used at the Facility and unintentionally released through the outfall into Elliott Ditch. Over time, the released PCBs have collected in upland soil and sediment near and within the ditch. This environmental assessment will be used to collect information for delineating the extent of the PCBs in support of stream remediation and restoration. Please refer to the attached Elliott Ditch Field Sampling Fact Sheet for additional information regarding the Project.

As stated previously, CEC is conducting this assessment on behalf of Arconic with oversight from the EPA Region 5 and the IDEM. Arconic and CEC are committed to working with the homeowners to keep you informed of activities performed on your property and avoiding unnecessary inconvenience. CEC is a consulting firm that is recognized for providing innovative design solutions and integrated expertise in the primary practice areas of civil engineering, ecological sciences, environmental engineering and sciences, survey, waste management and water resources. The CEC staff involved with this assessment are experienced professionals and will execute the Project as such.

The information contained herein is to provide you, the property owner, an introduction and background information related to the upcoming Project and formally request access to the portions of your property located adjacent to Elliott Ditch. CEC will be in the Lafayette area from **[date1]** through **[date2]** and would like to schedule a meeting with you to discuss the Project and potential access to Elliott Ditch from your property. Access will include providing an entry point to the stream for rodding and sediment sampling purposes, as well as the collection of upland soil

Request for Property Access Coordination – Elliott Ditch Field Sampling

Page 2

August 7, 2017

samples from your property. If you are open to meeting with CEC and discussing the Project, please contact the undersigned at 865-977-9997 or mbruck@cecinc.com.

CEC and Arconic greatly appreciate your time and effort in regards to this matter, and we look forward to speaking with you further about the upcoming assessment of Elliott Ditch.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

J. Matt Bruck, P.E.
Project Manager

Thomas L. Maher, Jr.
Principal

cc: Robert Prezbindowski, Arconic Inc.
Don Stilz, IDEM
Jean Greensley, USEPA Region 5

APPENDIX B
ELLIOTT DITCH FIELD SAMPLING FACT SHEET

Elliott Ditch Field Sampling

Summer of 2017

Question or Comments Call 24 hours a day (317) 613-4514

Background Information:

- Arconic Lafayette Operations (formerly Alcoa) is working with the Indiana Department of Environmental Management (IDEM) and U.S. Environmental Protection Agency (U.S. EPA) Region 5 to implement environmental remedial action for Elliott Ditch.
- Previous investigations conducted by U.S. EPA and Arconic, revealed historical polychlorinated biphenyl (PCB) impacts to some overbank and sediment deposits in Elliott Ditch.
- PCBs were used widely by electrical utilities and manufacturing industries across the nation as coolants, lubricants, electrical fluids, and in fire retardant materials from the 1950s to the early 1970s. PCBs were valued for their insulating qualities and were considered an important tool in safeguarding employees and public against fire risks. PCBs were not recognized as a contaminant at that time.
- The Company's Lafayette Operations phased out the use of PCB containing materials in the mid-1970s.

Next Steps:

- As part of the environmental remedial process for Elliott Ditch, Arconic or its consultant [Civil & Environmental Consultants, Inc. (CEC)], with oversight of IDEM and U.S. EPA Region 5, will begin field activities to collect sediment and overbank deposit samples in Elliott Ditch, from the Arconic Outfall to approximately 1.59 miles downstream (see attached figure). This work is being performed to verify current environmental conditions and determine if further action is necessary.
- Sampling is scheduled to begin late summer 2017.
- Arconic will be contacting residents and businesses to request permission to access their properties, and in some places, to access the ditch.
 - Property owners aiding in this investigation will be asked to sign a property access agreement.
 - The sampling will be conducted at no cost to the property owner and disturbed areas will be repaired.
 - The sampling will have little to no impact on residents' day-to-day activities.
 - Arconic will provide the sampling results to property owners upon request.

Environmental and Health Impacts:

Specific questions about health impacts of PCBs should be directed to the U.S. EPA or the Indiana Department of Environmental Management.

Project Contact Information:

- The public may leave a message with their questions and concerns regarding this investigation at (317) 613-4514, or contact Donald Stilz, IDEM Project Manager, at (317) 232-3409; toll free at (800) 451-6027; or by email at dstilz@idem.IN.gov. or Jean Greensley, U.S. Environmental Protection Agency Corrective Action Section 1, at (312) 353-1171; or by email at greensley.jean@epa.gov
- The news media may contact Alisha Hipwell, Arconic Inc. at (412) 553-2072 or by email at Alisha.Hipwell@arconic.com

APPENDIX C
EXAMPLE ACCESS AGREEMENT



ACCESS AND USE AGREEMENT

This Access and Use Agreement (“Agreement”) is entered into this ___ day of _____ 2017, by and between Arconic Inc. (“Arconic”), formerly known as Alcoa, and **[insert property owner]**.

In connection with an environmental cleanup project concerning Elliott Ditch in Lafayette, Indiana, which project is under the oversight of the United States Environmental Protection Agency (U.S. EPA) and the Indiana Department of Environmental Management (IDEM), your property has been identified as an appropriate location in support of the assessment, remediation, restoration, and/or monitoring of the ditch. By signing below, I represent that I am in fact the owner of the property described as **[insert property address and parcel ID]** (“Property”).

This Agreement allows Arconic, its agents, consultants, or other authorized representatives including employees and authorized representatives of the U.S. EPA and the IDEM, to access your Property and perform assessment (including the collection of soil samples), remediation, restoration, and monitoring on your Property (“Permitted Activities”). At least one week in advance of accessing your Property to perform any of such Permitted Activities, Arconic will notify you and provide you with the precise locations and scope of Permitted Activities. While performing any of the Permitted Activities, Arconic will as best as possible ensure that impacts and/or other damage to your Property are minimized, and if any damage is caused, Arconic shall be responsible for repairs prior to the expiration of this Agreement.

This Agreement shall become effective on the date written above and shall expire when U.S. EPA and IDEM advise Arconic that the assessment, remediation, restoration, and/or monitoring of Elliott Ditch are no longer needed. At such time, Arconic will notify you of this and thereafter, this Agreement shall be null and void.

ARCONIC INC.

[PROPERTY OWNER]

Name: _____

Name: _____

Title: _____

Title (if necessary): _____

APPENDIX II
POLING DATA SHEETS

Transect A Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
A-1	0.85	1.9	2.58	1.73	sand/silt	pool	no
A-2	0.74	1.85	2.47	1.73	sand/silt	pool	no
A-3	0.83	0.92	1.29	0.46	sand/silt	pool	no
A-4	0.56	1.06	1.2	0.64	sand/silt	pool	no
A-5	0.97	1.56	1.56	0.59	sand/silt	pool	no
A-6	1.32	2.16	3.59	2.27	sand/silt	pool	no
A-7	0.82	1.3	1.34	0.52	sand/silt	pool	no
A-8	0.75	2.16	3.11	2.36	sand/silt	pool	no
A-9	0.86	1.81	2.27	1.41	sand/silt	pool	no
A-10	0.84	2.65	2.91	2.07	sand/silt	pool	no
A-11	0.5	1.64	4.3	3.8	sand/silt	pool	no
A-12	0.93	2.05	3.29	2.36	sand/silt	pool	no
A-13	0.71	1.8	2.56	1.85	sand/silt	pool	no
A-14	0.25	1.41	1.69	1.44	sand/silt	pool	no
A-15	0.44	1.8	2.36	1.92	sand/silt	pool	no
A-16	0.86	1.3	1.46	0.6	sand/silt	pool	no
A-17	0.2	1.15	3.12	2.92	sand/silt	glide	no
A-18	0.35	1.16	3.52	3.17	sand/silt	glide	no
A-19	0.7	0.95	0.95	0.25	sand/silt	glide	no
A-20	0.18	1.18	2.6	2.42	sand/silt	glide	no
A-21	0.24	1.5	3.01	2.77	sand/silt	glide	no
A-22	0.4	1.14	1.23	0.83	sand/silt	riffle	no
A-23	0.22	1.09	1.25	1.03	sand/silt	riffle	no
A-24	0.25	1.55	2.34	2.09	sand/silt	riffle	no
A-25	0.31	0.48	0.52	0.21	sand/silt	riffle	no
A-26	0.15	0.68	1.75	1.6	sand/silt	riffle	no
A-27	0.23	1.01	1.67	1.44	sand/silt	riffle	no
A-28	0.29	0.55	0.97	0.68	sand/silt	riffle	no
A-29	0.31	2.36	3.45	3.14	sand/silt	riffle	no
A-30	0.18	0.62	1.56	1.38	sand/silt	riffle	no
A-31	0.24	0.86	0.98	0.74	sand/silt	riffle	no
A-32	0.21	1.36	2.26	2.05	sand/silt	riffle	no
A-33	0.15	1.62	3.8	3.65	sand/silt	riffle	no
A-34	0.19	0.93	2.76	2.57	sand/silt	riffle	no
A-35	0.76	1.5	3.03	2.27	sand/silt	central bar	no
A-36	0.3	2.36	3.14	2.84	sand/silt	central bar	no
A-37	0.15	1.54	3.89	3.74	sand/silt	central bar	no
A-38	0.19	0.5	3.69	3.5	sand/silt	central bar	no
A-39	0.34	0.49	0.61	0.27	sand/silt	central bar	no
A-40	0.2	1.24	3.46	3.26	sand/silt	central bar	no
A-41	0.26	1.24	3.95	3.69	sand/silt	central bar	no
A-42	0.5	1.54	1.54	1.04	sand/silt	central bar	no
A-43	0.34	0.66	0.66	0.32	sand/silt	central bar	no
A-44	0.26	1.12	1.19	0.93	sand/silt	central bar	no
A-45	0.28	1.15	1.49	1.21	sand/silt	central bar	no
A-46	0.4	1.26	2.87	2.47	sand/silt	central bar	no
A-47	0.4	0.7	2.02	1.62	sand/silt	central bar	no
A-48	0.2	1.45	3.15	2.95	sand/silt	central bar	no
A-49	0.35	2.76	3.2	2.85	sand/silt	central bar	no

Transect A Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
A-50	0.34	0.53	0.6	0.26	sand/silt	central bar	no
A-51	0	1.3	3.17	3.17	sand/silt	central bar	no
A-52	0.3	1.15	2.9	2.6	sand/silt	central bar	no
A-53	0.25	0.88	1.25	1	sand/silt	central bar	no
A-54	0	0.4	3.18	3.18	sand/silt	central bar	no
A-55	0.27	2.25	3.05	2.78	sand/silt	central bar	no
A-56	0.13	1.25	2.15	2.02	sand/silt	central bar	no
A-57	0.12	1.55	3.55	3.43	sand/silt	central bar	no
A-58	0.43	2.28	2.6	2.17	sand/silt	central bar	no
A-59	0.13	1.64	1.94	1.81	sand/silt	central bar	no
A-60	0	1.4	3	3	sand/silt	central bar	no
A-61	0.41	1.39	2.42	2.01	sand/silt	riffle	no

Transect B Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
B-01	0	1.45	2.3	2.3	Sand	Head of Riffle/PB	NO
B-02	0.5	1.45	1.5	1	Sand	TWG	NO
B-03	0.5	1.23	1.25	0.75	Sand	TWG	NO
B-04	0.54	0.84	0.84	0.3	Sand	TWG	NO
B-05	1.1	1.53	1.8	0.7	Sand	Point Bar	NO
B-06	0.35	1.2	2.09	1.74	Sand	Point Bar	NO
B-07	0	1.15	2	2	Sand	Point Bar	NO
B-08	1.15	1.43	1.45	0.3	Sand	Point Bar	NO
B-09	0.5	1.3	1.68	1.18	Sand	Point Bar	NO
B-10	0	0.4	1.4	1.4	Sand	Point Bar	NO
B-11	0.7	1.9	1.98	1.28	Sand	Point Bar	NO
B-12	0.58	1.84	2	1.42	Sand	Point Bar	NO
B-13	0.25	0.58	4.2	3.95	Sand	Point Bar	NO
B-14	1.05	2.4	2.55	1.5	Sand	Point Bar	NO
B-15	0.48	1.88	1.88	1.4	Sand	Point Bar	NO
B-16	0	1.8	3.55	3.55	Sand	Point Bar	NO
B-17	1.2	3.3	3.7	2.5	Sand	Point Bar	NO
B-18	1.4	3.38	4.55	3.15	Sand	Point Bar	NO
B-19	1.6	1.78	2	0.4	Sand	Point Bar	NO
B-20	0.6	2.81	3.55	2.95	Sand	Point Bar	NO
B-21	0.05	0.65	4.03	3.98	Sand/Silt	Point Bar	NO
B-22	0.81	2.11	2.39	1.58	Sand	Point Bar	NO
B-23	1.25	3.29	4.49	3.24	Sand	Point Bar	NO
B-24	0.6	2.46	3.81	3.21	Sand	Point Bar	NO
B-25	0.05	2.8	3.3	3.25	Sand		NO
B-26	0.74	1.7	2.74	2	Sand		NO
B-27	0.41	0.78	0.97	0.56	Sand		NO
B-28	0.85	3.96	4.92	4.07	Sand		NO
B-29	0.39	2.76	2.81	2.42	Sand		NO
B-30	0.45	1.09	1.09	0.64	Sand		NO
B-31	0.93	2.24	4.4	3.47	Sand		NO
B-32	0.56	1.34	4.81	4.25	Sand		NO
B-33	0.7	1.35	1.8	1.1	Sand		NO
B-34	1.2	2.24	4	2.8	Sand		NO
B-35	0.6	2.55	3.9	3.3	Sand		NO
B-36	0.8	1.54	1.94	1.14	Sand		NO
B-37	1	1.94	2.91	1.91	Sand		NO
B-38	0.9	2.3	4.73	3.83	Sand		NO
B-39	0.95	1.85	2.08	1.13	Sand		NO
B-40	1.03	1.83	2.01	0.98	Sand		NO
B-41	1.3	3.09	3.57	2.27	Sand/Silt	Longitudinal Bar	NO
B-43	0.89	1.9	1.9	1.01	Sand/Silt	Longitudinal Bar	NO
B-44	0.69	1.95	2	1.31	Sand/Silt	Longitudinal Bar	NO
B-45	1.24	1.75	1.85	0.61	Sand/Silt	Longitudinal Bar	NO
B-46	1.35	2.89	4.09	2.74	Sand/Silt	Longitudinal Bar	NO
B-47	0.8	1.79	1.87	1.07	Sand/Silt	Longitudinal Bar	NO
B-48	0.6	0.6	0.65	0.05	Sand/Silt	Longitudinal Bar	NO
B-49	0.84	2.52	3.15	2.31	Sand		NO

Transect B Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
B-50	0.65	2.81	2.83	2.18	Sand		NO
B-51	0.59	0.71	0.71	0.12	Sand		NO
B-52	0	1.34	3.5	3.5	Sand	Longitudinal Bar	NO
B-53	0.15	1.61	3.89	3.74	Sand	Longitudinal Bar	NO
B-54	0.45	0.64	0.78	0.33	Sand	Longitudinal Bar	NO
B-55	0.39	1.64	2.45	2.06	Sand		NO
B-56	0	0.89	3.41	3.41	Sand		NO
B-57	0.15	0.21	4.51	4.36	Sand/Silt		NO
B-58	0.21	1.1	4.02	3.81	Sand/Silt		NO
B-59	0.3	0.5	0.87	0.57	Sand/Silt	TWG	NO
B-60	0.34	1.55	2.14	1.8	Sand/Silt	TWG	NO
B-61	0	1.38	3	3	Sand/Silt	Longitudinal Bar	NO
B-62	0.3	2.1	2.3	2	Sand/Silt	Longitudinal Bar	NO
B-63	0.2	1.82	1.95	1.75	Sand/Silt	TWG	NO
B-64	0.59	1.35	1.44	0.85	Sand/Silt	TWG	NO
B-65	0	1.53	3.7	3.7	Sand/Silt	Longitudinal Bar	NO
B-66	0	1.87	2.8	2.8	Sand/Silt	Longitudinal Bar	NO
B-67	0.2	0.59	0.59	0.39	Sand/Silt	TWG	NO

Transect C Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
C-01	1.19	1.68	1.75	0.56	Silt/Clay		NO
C-02	1.35	1.9	1.9	0.55	Silt/Clay		NO
C-03	1.25	3.54	3.65	2.4	Sand		NO
C-04	1.53	2.8	3.35	1.82	Sand		NO
C-05	1.36	2.18	2.37	1.01	Sand		NO
C-06	0.7	1.04	1.29	0.59	Clay		NO
C-07	1.18	2.29	2.29	1.11	Clay		NO
C-08	1.05	2.1	3.2	2.15	Sand		NO
C-09	1.09	1.59	1.7	0.61	Sand		NO
C-10	0.91	2.65	3.05	2.14	Sand/Silt		NO
C-11	0.91	1	2.05	1.14	Sand/Silt		NO
C-12	1.5	3.76	3.9	2.4	Sand		NO
C-13	0.73	1.82	4	3.27	Sand	Point Bar/Inner Berm	NO
C-14	0.74	1.56	3.4	2.66	Sand	Point Bar/Inner Berm	NO
C-15	0.53	0.95	1	0.47	Sand	twg	NO
C-16	0.44	1.55	4.79	4.35	Sand	Point Bar/Inner Berm	NO
C-17	0.65	3.44	3.91	3.26	Sand	Point Bar/Inner Berm	NO
C-18	0.46	1.43	1.75	1.29	Clay	twg	NO
C-19	0.44	2.7	4.44	4	Sand	Point Bar/Inner Berm	NO
C-20	0.5	1.5	4.87	4.37	Sand		NO
C-21	0.6	1.35	4.45	3.85	Sand/Silt		NO
C-22	0.4	0.6	0.6	0.2	Sand		NO
C-23	0.4	2.55	2.95	2.55	Sand		NO
C-24	0.55	1.94	3.94	3.39	Sand		NO
C-25	0.67	1.25	2.51	1.84	Sand		NO
C-26	0.45	1.46	1.73	1.28	Silt/Clay		NO
C-27	0.59	2.56	2.95	2.36	Sand		NO
C-28	0.4	1.7	2.99	2.59	Sand		NO
C-29	0.5	2.35	2.74	2.24	Sand/Silt		NO
C-30	0.58	2.09	2.79	2.21	Sand		NO
C-31	0.55	1.35	3.01	2.46	Sand		NO
C-32	0.45	2.5	2.69	2.24	Sand		NO
C-33	0.37	1.88	3.2	2.83	Sand		NO
C-34	0.7	1.61	2.53	1.83	Sand/Silt		NO
C-35	0.53	1.3	3.35	2.82	Sand	Point Bar/Inner Berm	NO
C-36	0.2	1.5	1.84	1.64	Sand	Point Bar/Inner Berm	NO
C-37	0	2	4.6	4.6	Sand	Point Bar/Inner Berm	NO
C-38	0.97	1.67	2.69	1.72	Sand/Silt		NO
C-39	0.7	1.45	3.29	2.59	Sand	Point Bar/Inner Berm	NO
C-40	0.2	1.94	3.18	2.98	Sand	Point Bar/Inner Berm	NO
C-41	0.2	2.25	3.02	2.82	Sand	Point Bar/Inner Berm	NO
C-42	0.4	1.65	3.85	3.45	Sand	Point Bar/Inner Berm	NO
C-43	1	3.05	3.1	2.1	Sand	twg	NO

Transect D Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
D-01	1.66	1.73	1.8	0.14	Sand		No
D-02	1.93	3.36	4.6	2.67	Sand/Silt		No
D-03	1.91	3.42	4.35	2.44	Sand/Silt		No
D-04	1.68	1.91	1.92	0.24	Sand		No
D-05	1.8	3.21	4.49	2.69	Sand		No
D-06	1.96	3.44	4.31	2.35	Sand/Silt		No
D-07	1.77	2.54	4.46	2.69	Sand/Silt		No
D-08	1.54	2.13	2.13	0.59	Sand/Clay		No
D-09	1.67	2.22	2.4	0.73	Sand/Clay		No
D-10	1.94	3.85	5.11	3.17	Sand/Clay		No
D-11	2.13	3.84	5.37	3.24	Sand/Clay		No
D-12	1.9	2.67	3.19	1.29	Sand/Clay		No
D-13	2.1	2.21	2.51	0.41	Clay		No
D-14	2.26	2.89	3.24	0.98	Sand/Clay	Point Bar	No
D-15	2.18	3.5	4.39	2.21	Sand	Point Bar	No
D-16	1.6	2.5	4.39	2.79	Sand	Inner Berm	No
D-17	2.31	2.98	3.09	0.78	Sand/Clay		No
D-18	2.36	4.09	4.48	2.12	Sand		No
D-19	2.24	3.8	5.23	2.99	Sand		No
D-20	1.49	2.5	4.78	3.29	Sand		No
D-21	1.68	2.57	4.3	2.62	Sand		No
D-22	2.45	3.76	3.99	1.54	Sand		No
D-23	2.58	4.32	4.8	2.22	Sand/Gravel		No
D-24	2.05	2.48	3.86	1.81	Clay		No
D-25	2.11	3.29	3.3	1.19	Sand		No
D-26	2.8	5.1	5.38	2.58	Sand/Silt		No
D-27	2.6	4.74	5	2.4	Sand/Silt		No
D-28	1.89	2.79	4.6	2.71	Sand/Silt		No
D-29	1.8	3.44	4.9	3.1	Sand/Silt		No
D-30	2.65	4.56	4.62	1.97	Sand		No
D-31	2.5	5.05	6.03	3.53	Sand/Silt		No
D-32	2.38	3.23	3.34	0.96	Sand/Silt		No

Transect E Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
E-01	1.39	1.79	1.84	0.45	Sand	Large Debris Jam	No
E-02	1.51	2.05	2.2	0.69	Sand	Large Debris Jam	No
E-03	1.57	2.12	2.25	0.68	Clay	Large Debris Jam	No
E-04	1.1	1.37	1.38	0.28	Sand	Large Debris Jam	No
E-05	1.48	1.56	1.56	0.08	Sand	Large Debris Jam	No
E-06	1.1	2	2.02	0.92	Sand	Large Debris Jam	No
E-07	1.8	2.04	2.08	0.28	Sand	Large Debris Jam	No
E-08	1.3	1.35	1.35	0.05	Sand	Large Debris Jam	No
E-09	0.95	1.67	1.76	0.81	Sand	Large Debris Jam	No
E-10	0.41	1.77	1.77	1.36	Sand	Large Debris Jam	No
E-11	1.15	1.4	1.41	0.26	Sand	Large Debris Jam	No
E-12	0.56	1.24	1.34	0.78	Sand	Large Debris Jam	No
E-13	0.46	1.45	1.45	0.99	Sand	Large Debris Jam	No
E-14	0.89	1.15	1.15	0.26	Sand	Large Debris Jam	No
E-15	0.45	0.94	1.02	0.57	Sand	Large Debris Jam	No
E-16	0.43	0.78	0.81	0.38	Sand	Large Debris Jam	No
E-17	1.16	2.11	2.19	1.03	Sand	Small Debris Jam	No
E-18	0.25	1.4	3.25	3	Sand/Silt	Small Debris Jam	No
E-19	1.14	1.78	1.97	0.83	Sand/Silt	Small Debris Jam	No
E-20	0	0.8	2.5	2.5	Sand/Silt	Small Debris Jam	No
E-21	0.35	1.2	1.49	1.14	Sand/Silt	Small Debris Jam	No
E-22	0.43	1.48	1.5	1.07	Sand	Small Debris Jam	No
E-23	0.6	1.4	2.13	1.53	Sand	Small Debris Jam	No
E-24	0.24	1.26	1.26	1.02	Sand	Small Debris Jam	No
E-25	0	1	1	1	Sand/Silt	Small Debris Jam	No

Transect F Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
F-01	1.35	1.84	3.2	1.85	Sand		NO
F-02	1.3	2.48	2.54	1.24	Sand		NO
F-03	1.29	1.94	3.91	2.62	Sand		NO
F-04	1.23	1.7	1.75	0.52	Sand/Clay		NO
F-05	1.35	1.94	2.85	1.5	Sand		NO
F-06	1.04	1.99	2.24	1.2	Sand		NO
F-07	1.4	2.4	3.2	1.8	Sand		NO
F-08	1.3	2.41	2.49	1.19	Sand		NO
F-09	1.27	2.7	3	1.73	Sand		NO
F-10	1.42	2.37	3.35	1.93	Sand		NO
F-11	1.29	2.03	2.3	1.01	Sand		NO
F-12	1.72	2.35	2.4	0.68	Sand		NO
F-13	1.48	2.9	3.09	1.61	Sand		NO
F-14	1.4	2.1	3.28	1.88	Sand/Silt		NO
F-15	1.25	2.25	2.48	1.23	Sand		NO
F-16	1.22	2.28	2.6	1.38	Sand		NO
F-17	1.49	2.03	3	1.51	Sand		NO
F-18	1.37	2.07	3.24	1.87	Sand		NO
F-19	1.25	1.97	2.35	1.1	Sand		NO
F-20	1.35	2.26	2.65	1.3	Sand		NO
F-21	1.06	2.04	2.64	1.58	Sand		NO
F-22	1.37	2.04	3.09	1.72	Sand		NO
F-23	1.4	2.03	2.24	0.84	Sand		NO
F-24	1.3	2.3	2.4	1.1	Sand		NO
F-25	1.33	2.48	3.23	1.9	Sand		NO
F-26	1.29	1.57	3.85	2.56	Sand/Silt		NO
F-27	1.48	2.02	2.1	0.62	Sand		NO
F-28	1.52	2.39	3.18	1.66	Sand		NO
F-29	1.45	2.73	3.12	1.67	Sand		NO
F-30	1.36	1.7	2.8	1.44	Sand		NO
F-31	1.4	2.3	3.33	1.93	Sand		NO
F-32	1.54	2.48	2.63	1.09	Sand		NO
F-33	1.64	2.32	3.15	1.51	Sand		NO
F-34	1.35	1.66	2.43	1.08	Sand		NO
F-35	1.36	2.03	2.15	0.79	Sand		NO
F-36	1.5	2.28	2.41	0.91	Sand		NO
F-37	1.6	2.03	2.05	0.45	Sand/Gravel		NO
F-38	1.3	2.18	3.17	1.87	Sand/Clay		NO
F-39	1.64	2.8	3.48	1.84	Sand		NO
F-40	1.57	2.9	2.96	1.39	Sand		NO
F-41	1.54	2.28	2.36	0.82	Sand		NO

Transect G Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
G-01	1.96	2.18	2.22	0.26	Sand	Point Bar	NO
G-02	1.97	2.33	2.41	0.44	Sand	Point Bar	NO
G-03	1.61	1.94	1.94	0.33	Sand	Point Bar	NO
G-04	1.7	2.05	2.07	0.37	Sand	Point Bar	NO
G-05	1.39	2.1	2.16	0.77	Sand	Point Bar	NO
G-06	1.09	2.03	3.09	2	Sand	Point Bar	NO
G-07	1.36	2.18	2.18	0.82	Sand	Point Bar	NO
G-08	1.2	2.11	2.37	1.17	Sand	Point Bar	NO
G-09	0.99	2	3.57	2.58	Sand	Point Bar	NO
G-10	1.68	2	2.03	0.35	Sand	Point Bar	NO
G-11	1.28	2.2	2.38	1.1	Sand	Point Bar	NO
G-12	0.98	2	2.11	1.13	Sand	Point Bar	NO
G-13	0.4	1.3	4.74	4.34	Sand/Silt	Point Bar	NO
G-14	1.64	2.01	2.1	0.46	Sand	Point Bar	NO
G-15	1	2.35	4.25	3.25	Sand/Silt	Point Bar	NO
G-16	0.4	1.77	3.7	3.3	Sand	Point Bar	NO
G-17	1.78	1.95	2	0.22	Sand	Point Bar	NO
G-18	0.97	2.2	2.7	1.73	Sand	Point Bar	NO
G-19	0.66	1.89	2.04	1.38	Sand	Point Bar	NO
G-20	1.44	1.85	3.36	1.92	Sand	Point Bar	NO
G-21	1.1	2.03	3.16	2.06	Sand/Silt	Point Bar	NO
G-22	0.86	1.98	2.1	1.24	Sand	Point Bar	NO
G-23	1.55	1.84	1.84	0.29	Sand	Point Bar	NO
G-24	1.3	2	2.09	0.79	Sand	Point Bar	NO
G-25	0.5	1.1	2	1.5	Sand/Silt	Point Bar	NO
G-26	1.58	1.86	2.21	0.63	Sand	Point Bar	NO
G-27	1.12	1.81	1.94	0.82	Sand	Point Bar	NO
G-28	0.85	1.55	1.7	0.85	Sand	Point Bar	NO
G-29	0.5	0.9	1.9	1.4	Sand	Point Bar	NO

Transect H Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
H-01	0.95	1.27	1.45	0.5	Sand	Longitudinal Bar	No
H-02	0.65	1.15	1.3	0.65	Sand	Longitudinal Bar	No
H-03	1	1.49	1.52	0.52	Sand	Longitudinal Bar	No
H-04	0.59	0.97	1	0.41	Sand	Longitudinal Bar	No
H-05	0.61	1.08	1.14	0.53	Sand	Longitudinal Bar	No
H-06	0.6	1.16	1.23	0.63	Sand	Longitudinal Bar	No
H-07	0.6	1.22	1.26	0.66	Sand	Longitudinal Bar	No
H-08	0.47	0.84	0.84	0.37	Sand	Longitudinal Bar	No
H-09	0.35	0.83	0.85	0.5	Sand	Longitudinal Bar	No
H-10	0.35	1.04	1.1	0.75	Sand	Longitudinal Bar	No
H-11	0.54	1.18	1.19	0.65	Sand	Longitudinal Bar	No
H-12	0.64	1.26	1.35	0.71	Sand	Longitudinal Bar	No
H-13	0.25	1	1.05	0.8	Sand	Longitudinal Bar	No
H-14	0.47	0.89	1.01	0.54	Sand	Longitudinal Bar	No
H-15	0.58	1	1	0.42	Sand	Longitudinal Bar	No
H-16	0.45	1.1	1.14	0.69	Sand	Longitudinal Bar	No
H-17	0.72	1.22	1.25	0.53	Sand	Longitudinal Bar	No
H-18	0.8	1.21	1.21	0.41	Sand	Longitudinal Bar	No
H-19	0.58	1.26	1.32	0.74	Sand	Longitudinal Bar	No
H-20	0.8	1.18	1.21	0.41	Sand	Longitudinal Bar	No
H-21	0.89	1.45	1.5	0.61	Sand	Longitudinal Bar	No

Transect I Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
I-01	2.05	2.35	2.42	0.37	Sand		No
I-02	2.04	2.26	3.17	1.13	Sand		No
I-03	1.95	2.7	2.89	0.94	Clay		No
I-04	2.08	3.24	3.24	1.16	Sand		No
I-05	1.78	2.28	2.9	1.12	Sand		No
I-06	2	2.25	3.5	1.5	Sand/Gravel		No
I-07	1.55	2.46	3	1.45	Sand/Gravel		No
I-08	1.85	3.3	3.37	1.52	Sand/Gravel		No
I-09	2.1	3.3	3.35	1.25	Sand/Gravel		No
I-10	2.05	2.42	2.47	0.42	Sand		No
I-11	2.22	2.85	2.85	0.63	Sand		No
I-12	1.9	3.06	3.08	1.18	Sand		No
I-13	1.75	3.48	4.1	2.35	Sand/Clay		No
I-14	1.52	2.27	3.48	1.96	Sand/Clay		No
I-15	2.2	2.84	2.86	0.66	Sand/Clay		No
I-16	1.91	2.94	2.95	1.04	Sand/Clay		No
I-17	1.68	2.59	2.6	0.92	Sand/Clay		No
I-18	1.65	2.9	3.35	1.7	Sand/Clay		No
I-19	2.34	2.68	2.69	0.35	Sand		No
I-20	2.08	2.79	2.8	0.72	Sand/Silt		No
I-21	1.6	2.38	2.6	1	Clay		No
I-22	2.19	2.34	2.56	0.37	Sand		No
I-23	1.85	2.56	2.6	0.75	Sand		No
I-24	1.4	2.26	2.3	0.9	Sand		No
I-25	2.06	2.42	2.46	0.4	Sand		No
I-26	1.75	2.64	2.65	0.9	Sand		No
I-27	1.39	1.98	2.2	0.81	Sand		No
I-28	1.78	2.53	2.58	0.8	Sand		No
I-29	2.09	2.44	2.51	0.42	Sand		No
I-30	1.9	3.36	3.36	1.46	Sand/Clay		No
I-31	1.66	3.09	3.09	1.43	Sand/Clay		No
I-32	0.93	2	2.35	1.42	Sand/Clay		No
I-33	2.04	2.37	2.4	0.36	Sand/Clay		No
I-34	1.24	2	2.15	0.91	Sand		No
I-35	1.05	1.4	1.49	0.44	Clay		No

Transect J Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
J-01	0.63	0.74	0.8	0.17	Sand	UPS of Debris Jam	No
J-02	0.75	1.38	1.39	0.64	Sand	UPS of Debris Jam	No
J-03	0.72	1.09	1.14	0.42	Sand	UPS of Debris Jam	No
J-04	0.76	1.44	1.5	0.74	Sand	UPS of Debris Jam	No
J-05	1.05	1.68	1.68	0.63	Sand	UPS of Debris Jam	No
J-06	1.4	1.68	1.75	0.35	Sand	UPS of Debris Jam	No
J-07	1	1.72	1.79	0.79	Sand	UPS of Debris Jam	No
J-08	0.8	1.3	1.45	0.65	Sand	UPS of Debris Jam	No
J-09	0.89	1.24	1.44	0.55	Sand	UPS of Debris Jam	No
J-10	1	1.4	2.18	1.18	Sand	UPS of Debris Jam	No
J-11	1.2	1.76	1.82	0.62	Sand	UPS of Debris Jam	No
J-12	1.3	2.34	2.95	1.65	Sand	UPS of Debris Jam	No
J-13	1.25	2.2	2.8	1.55	Sand	UPS of Debris Jam	No
J-14	1.46	2.6	2.82	1.36	Sand	UPS of Debris Jam	No
J-15	1.64	2.47	2.64	1	Sand	UPS of Debris Jam	No
J-16	1.54	1.91	1.94	0.4	Sand	UPS of Debris Jam	No
J-17	1.48	2.25	2.5	1.02	Sand	UPS of Debris Jam	No
J-18	1.35	2.02	3.19	1.84	Sand	UPS of Debris Jam	No
J-19	1.32	2.08	2.15	0.83	Sand	UPS of Debris Jam	No
J-20	1.43	2.02	2.23	0.8	Sand	UPS of Debris Jam	No
J-21	1.2	1.89	2.29	1.09	Sand	UPS of Debris Jam	No
J-22	1.28	1.89	2	0.72	Sand	UPS of Debris Jam	No
J-23	1.05	1.41	1.42	0.37	Sand	UPS of Debris Jam	No
J-24	1.42	1.71	2.75	1.33	Sand	UPS of Debris Jam	No
J-25	1.2	1.91	2.66	1.46	Sand	UPS of Debris Jam	No
J-26	1.8	1.81	1.81	0.01	Sand	UPS of Debris Jam	No
J-27	1.05	1.3	1.35	0.3	Sand	UPS of Debris Jam	No
J-28	0.8	0.93	1	0.2	Sand	UPS of Debris Jam	No
J-29	1.58	1.66	1.71	0.13	Sand	UPS of Debris Jam	No
J-30	1.05	1.39	1.49	0.44	Sand	UPS of Debris Jam	No
J-31	0.75	1.15	1.2	0.45	Sand	DS of Debris Jam	No
J-32	0.37	0.87	0.87	0.5	Sand	DS of Debris Jam	No
J-33	0.76	1.98	2.1	1.34	Sand	DS of Debris Jam	No
J-34	1.06	1.46	1.5	0.44	Sand	DS of Debris Jam	No
J-35	0.92	1.58	1.68	0.76	Sand	DS of Debris Jam	No
J-36	1.63	1.81	1.81	0.18	Sand	DS of Debris Jam	No
J-37	1.13	1.48	1.5	0.37	Sand	DS of Debris Jam	No
J-38	0.7	1.4	1.45	0.75	Sand	DS of Debris Jam	No
J-39	1.05	1.75	1.8	0.75	Sand	DS of Debris Jam	No
J-40	0.35	1	1.05	0.7	Sand	DS of Debris Jam	No
J-41	0.75	1	1	0.25	Sand	DS of Debris Jam	No
J-42	1.05	1.05	1.05	0	Sand	DS of Debris Jam	No
J-43	0.9	1	1	0.1	Sand	DS of Debris Jam	No
J-44	0.28	0.98	1.15	0.87	Sand	DS of Debris Jam	No
J-45	0.49	1.02	1.15	0.66	Sand	DS of Debris Jam	No
J-46	0.54	1	1.02	0.48	Sand	DS of Debris Jam	No
J-47	0.83	1.15	1.28	0.45	Sand	DS of Debris Jam	No
J-48	0.45	1.14	1.15	0.7	Sand	DS of Debris Jam	No

Transect J Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
J-49	1.06	1.19	1.24	0.18	Sand	DS of Debris Jam	No
J-50	0.44	0.85	0.85	0.41	Sand	DS of Debris Jam	No
J-51	0.44	0.6	0.62	0.18	Sand	DS of Debris Jam	No

Transect K Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
K-01	1.25	1.44	1.54	0.29	Sand	Debris Jam/Pool	No
K-02	1.25	1.85	1.97	0.72	Sand	Debris Jam/Pool	No
K-03	1.25	1.47	1.6	0.35	Sand	Debris Jam/Pool	No
K-04	1.3	1.51	1.6	0.3	Sand	Debris Jam/Pool	No
K-05	1.12	1.35	1.52	0.4	Sand	Debris Jam/Pool	No
K-06	0.91	1.4	1.53	0.62	Sand	Debris Jam/Pool	No
K-07	1.18	1.6	1.75	0.57	Sand	Debris Jam/Pool	No
K-08	1.3	2.09	4.2	2.9	Sand	Debris Jam/Pool	No
K-09	1.5	2	2.1	0.6	Sand	Debris Jam/Pool	No
K-10	1.04	1.21	1.21	0.17	Sand	Debris Jam/Pool	No
K-11	1.22	1.92	1.95	0.73	Sand	Debris Jam/Pool	No
K-12	1.65	1.91	1.94	0.29	Sand	Debris Jam/Pool	No
K-13	0.45	0.81	2.2	1.75	Sand	Debris Jam/Pool	No
K-14	1	1.56	1.59	0.59	Sand	Debris Jam/Pool	No
K-15	1.4	1.96	2.06	0.66	Sand	Debris Jam/Pool	No
K-16	1.3	2.47	2.5	1.2	Sand	Debris Jam/Pool	No
K-17	1.36	2.91	3.26	1.9	Silt	Debris Jam/Pool	No
K-18	1.43	3.26	3.3	1.87	Silt	Debris Jam/Pool	No
K-19	1.33	3.2	3.22	1.89	Sand/Silt	Debris Jam/Pool	No
K-20	1.51	1.68	1.84	0.33	Sand	Debris Jam/Pool	No
K-21	1.51	1.71	2.27	0.76	Sand	Debris Jam/Pool	No
K-22	1.26	1.34	1.42	0.16	Sand	Debris Jam/Pool	No
K-23	1.33	1.71	1.76	0.43	Sand	Debris Jam/Pool	No
K-24	0.99	1.47	1.51	0.52	Sand	Debris Jam/Pool	No
K-25	1.54	1.6	1.62	0.08	Sand	Debris Jam/Pool	No
K-26	1.68	2.11	2.15	0.47	Sand	Debris Jam/Pool	No
K-27	1.14	1.3	1.32	0.18	Sand	Debris Jam/Pool	No
K-28	0.91	1.16	1.16	0.25	Sand	Debris Jam/Pool	No
K-29	1.04	1.2	1.2	0.16	Sand	Debris Jam/Pool	No
K-30	1.45	1.5	1.5	0.05	Sand	Debris Jam/Pool	No
K-31	1.54	3.41	3.41	1.87	Silt	Debris Jam/Pool	No
K-32	1.1	3.3	3.3	2.2	Silt	Debris Jam/Pool	No
K-33	0.7	1.09	3.4	2.7	Silt	Debris Jam/Pool	No
K-34	1.1	1.5	1.59	0.49	Silt	Debris Jam/Pool	No
K-35	0.65	0.84	3.65	3	Silt	Debris Jam/Pool	No

Transect L Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
L-01	2.7	2.9	2.9	0.2	Clay	Point Bar 1	NO
L-02	2.01	2.76	2.76	0.75	Clay	Point Bar 1	NO
L-03	1.3	1.44	1.44	0.14	Clay	Point Bar 1	NO
L-04	3.1	3.15	3.15	0.05	Clay	Point Bar 1	NO
L-05	2.85	3.4	3.55	0.7	Clay	Point Bar 1	NO
L-06	1.8	2.65	2.7	0.9	Clay	Point Bar 1	NO
L-07	3.3	3.35	3.38	0.08	Clay	Point Bar 1	NO
L-08	2.81	3.36	3.4	0.59	Silt/Clay	Point Bar 1	NO
L-09	1.91	2.29	2.29	0.38	Silt/Clay	Point Bar 1	NO
L-10	3.29	3.3	3.3	0.01	Silt/Clay	Point Bar 1	NO
L-11	1.42	2.49	3.34	1.92	Sand/Clay	Point Bar 1	NO
L-12	2.46	3.3	3.4	0.94	Clay	Point Bar 1	NO
L-13	1.5	2.94	3.69	2.19	Clay	Point Bar 1	NO
L-14	2.95	3.25	3.25	0.3	Clay	Point Bar 1	NO
L-15	0.35	2.78	3.71	3.36	Clay	Point Bar 1	NO
L-16	3.13	3.2	3.2	0.07	Gravel	Point Bar 1	NO
L-17	1.78	3.25	3.25	1.47	Silt/Clay	Point Bar 1	NO
L-18	2.7	2.9	3.05	0.35	Gravel	Point Bar 1	NO
L-19	2.15	2.52	2.95	0.8	Sand/Silt	Point Bar 1	NO
L-20	2.67	3.2	3.25	0.58	Sand/Silt	Point Bar 1	NO
L-21	2.44	2.45	2.45	0.01	Sand/Clay	Point Bar 1	NO
L-22	2.05	2.45	2.5	0.45	Sand/Clay	Point Bar 1	NO
L-23	1.61	2.5	2.95	1.34	Sand/Silt	Point Bar 1	NO
L-24	0.94	2.13	3.45	2.51	Sand	Point Bar 1	NO
L-25	2.28	2.5	2.51	0.23	Sand	Point Bar 1	NO
L-26	2.15	2.65	2.7	0.55	Sand	Point Bar 1	NO
L-27	1.61	2.45	2.45	0.84	Sand/Silt	Point Bar 1	NO
L-28	1.5	2.05	3.21	1.71	Clay	Point Bar 1	NO
L-29	2.56	3.2	3.4	0.84	Sand	Point Bar 1	NO
L-30	2.9	3.1	3.15	0.25	Sand	Point Bar 1	NO
L-31	1.94	2.6	2.85	0.91	Silt	Point Bar 1	NO
L-32	1.78	2.26	2.3	0.52	Silt	Point Bar 1	NO
L-33	2.96	3.2	3.3	0.34	Sand	Point Bar 1	NO
L-34	2.39	3.1	3.5	1.11	Sand	Point Bar 1	NO
L-35	2.09	2.9	3.1	1.01	Silt/Clay	Point Bar 1	NO
L-36	3.28	3.7	3.75	0.47	Sand/Gravel	Point Bar 1	NO
L-37	2.52	3.52	4.05	1.53	Silt	Point Bar 1	NO
L-38	1.71	2.45	3.2	1.49	Silt	Point Bar 1	NO
L-39	3.34	3.72	3.72	0.38	Gravel	Point Bar 1	NO
L-40	1.95	2.85	2.96	1.01	Silt	Point Bar 1	NO
L-41	1.68	2.7	2.81	1.13	Sand/Silt	Point Bar 1	NO
L-42	1.5	2.44	2.44	0.94	Sand	Point Bar 1	NO
L-43	1.54	2.3	2.4	0.86	Sand	Point Bar 1	NO
L-44	1.9	2.3	2.39	0.49	Gravel	Point Bar 1	NO
L-45	2.01	2.14	2.14	0.13	Gravel	Point Bar 1	NO
L-46	1.15	1.3	1.3	0.15	Clay	Point Bar 1	NO
L-47	1.51	1.68	1.72	0.21	Clay	Point Bar 1	NO
L-48	2.25	2.84	3.29	1.04	Sand	Point Bar 2/3	NO

Transect L Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
L-49	2.5	3.1	3.11	0.61	Sand	Point Bar 2/3	NO
L-50	3.9	4.3	4.3	0.4	Sand/Gravel	Point Bar 2/3	NO
L-51	3.11	3.35	3.4	0.29	Sand	Point Bar 2/3	NO
L-52	2.25	2.8	2.8	0.55	Sand	Point Bar 2/3	NO
L-53	1.3	2.7	2.78	1.48	Silt	Point Bar 2/3	NO
L-54	3.04	3.29	3.3	0.26	Sand	Point Bar 2/3	NO
L-55	2.04	2.81	2.86	0.82	Silt/Clay	Point Bar 2/3	NO
L-56	1.1	1.98	2.41	1.31	Silt/Clay	Point Bar 2/3	NO
L-57	2.8	3	3.15	0.35	Sand/Gravel	Point Bar 2/3	NO
L-58	1.95	2.3	2.44	0.49	Clay	Point Bar 2/3	NO
L-59	0.95	1	1	0.05	Clay	Point Bar 2/3	NO
L-60	2.71	2.86	2.94	0.23	Gravel	Point Bar 2/3	NO
L-61	0.31	0.4	0.45	0.14	Clay	Point Bar 2/3	NO
L-62	0.94	0.95	0.95	0.01	Clay	Point Bar 2/3	NO

Transect M Poling Data

Point	Water Depth (Feet)	Soft Push (Feet)	Hard Push (Feet)	Total Depth (Feet)	Sediment Type	Geomorphic Feature	Aquatic Veg
M-01	3.23	3.25	3.26	0.03	Sand	Point Bar	No
M-02	2.97	3.34	3.34	0.37	Sand	Point Bar	No
M-03	3.49	3.49	3.49	0	Clay	Point Bar	No
M-04	3.15	3.18	3.18	0.03	Sand	Point Bar	No
M-05	2.6	3.15	3.16	0.56	Sand	Point Bar	No
M-06	2.49	2.36	3.7	1.21	Sand/Clay	Point Bar	No
M-07	2.5	3.15	3.21	0.71	Sand/Clay	Point Bar	No
M-08	2.36	3	3.09	0.73	Sand	Point Bar	No
M-09	2.8	3.04	3.05	0.25	Sand	Point Bar	No
M-10	2.63	2.79	2.8	0.17	Sand	Point Bar	No
M-11	2.2	2.7	2.75	0.55	Sand	Point Bar	No
M-12	2.34	2.6	2.6	0.26	Sand	Point Bar	No
M-13	2.48	2.77	2.8	0.32	Sand	Point Bar	No
M-14	2.1	2.54	2.6	0.5	Sand	Point Bar	No
M-15	2.33	2.75	2.8	0.47	Silt/Clay	Point Bar	No
M-16	2.25	2.5	2.79	0.54	Sand	Point Bar	No
M-17	2.25	2.74	2.75	0.5	Sand	Point Bar	No
M-18	1.92	2.3	2.3	0.38	Sand/Clay	Point Bar	No
M-19	2	3	3.09	1.09	Gravel	Point Bar	No
M-20	2.25	2.8	2.85	0.6	Gravel	Point Bar	No
M-21	2.5	2.6	2.65	0.15	Gravel	Point Bar	No
M-22	2.24	2.7	2.8	0.56	Gravel	Point Bar	No
M-23	2.46	2.6	2.7	0.24	Gravel	Point Bar	No
M-24	1.8	2.35	3.1	1.3	Sand	Point Bar	No
M-25	1.56	2.19	2.36	0.8	Clay	Point Bar	No
M-26	2.39	2.7	2.75	0.36	Gravel	Point Bar	No
M-27	2	2.65	3.2	1.2	Silt/Gravel	Point Bar	No
M-28	1.69	2.34	2.4	0.71	Sand/Gravel	Point Bar	No
M-29	1.65	2.34	2.35	0.7	Sand/Silt	Point Bar	No
M-30	2.3	2.64	2.7	0.4	Gravel	Point Bar	No
M-31	1.95	2.64	2.75	0.8	Sand/Silt	Point Bar	No
M-32	1.74	2.38	2.45	0.71	Sand	Point Bar	No
M-33	1.54	2.29	2.3	0.76	Sand	Point Bar	No
M-34	1.9	2.09	2.1	0.2	Gravel	Point Bar	No
M-35	1.65	2.35	2.36	0.71	Sand	Point Bar	No
M-36	1.74	2.3	2.35	0.61	Sand	Point Bar	No
M-37	1.7	2.05	2.2	0.5	Gravel	Point Bar	No
M-38	1.69	2.3	2.3	0.61	Sand	Point Bar	No
M-39	1.55	1.9	1.91	0.36	Sand	Point Bar	No
M-40	1.65	1.79	1.9	0.25	Sand	Point Bar	No
M-41	1.4	2.15	2.15	0.75	Sand	Point Bar	No
M-42	1.45	1.69	1.85	0.4	Sand	Point Bar	No
M-43	1.65	1.88	2	0.35	Sand	Point Bar	No
M-44	1.45	1.85	1.95	0.5	Sand	Point Bar	No
M-45	1.45	1.6	1.61	0.16	Clay	Point Bar	No

APPENDIX III
SEDIMENT FIELD DATA SHEETS

Sediment Data Sheet

Project Name: Eliot Ditch
 Project Number: 172-367
 Field Location ID: ED-0008-SP02
 Core Type: Sediment - Peat Borer
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: SMF/MKD/LDC/JAS
 Cored Date: 10/30/2017
 Described By: MKD/JAS
 Described Date: 10/30/2017

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
2.45	2.03	83%

Pictures 1-8
 11:20 - 11:43am

Reviewed By _____ Date _____



Sediment Log

Client: CEC / Arconic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 10/30/2017

Location ID: ED-00.08-SDOZ Interval: 0 ft to 0.45 ft

Layer: 1 of 4 Gap: 0.42 ft

Sediment Color: 5Y2.5/1 2nd Sediment Color: 5Y 2.5/1

Lab Data

Duplicates? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1 Jar

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: coarse sand

USCS Texture: SP

Structure

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input checked="" type="checkbox"/> Single Grain	<input type="checkbox"/> Structureless
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other	

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Odor? Petrochemical Sulfur Other organic

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes

TM? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: MKD

Data Entry By: Same as above JAS

Sample Remarks

Internal Remarks: 10/30 1120

Client: CEC/Arcadis
 Site Name: Elliot Ditch
 Project Name: 17a-367
 Task #: 0002
 Log Date: 10/30/2017

Location ID: ED-00.08 - S002

Interval: 0.45 ft to 0.75 ft

Layer: 2 of 4 Gap: 0.48 ft

Sediment Color: N 2.5 (Black) 2nd Sediment Color: N 2.5 (Black)

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Loamy sand

USCS Texture: SM

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____

Grade: Weak Moderate Strong

Structureless

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% (None) 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other organic

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 5 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: _____ USDA Texture: _____

Field Personnel

Logged By: mkd

Data Entry By: Same as above JAS

Internal Remarks

10/30 1125

Notes

Tim? Lacustrine? Sand/gravel bed?

Client: Cec/Arronic
 Site Name: Elliot Ditch
 Project Name: 17A-367
 Task #: 0002
 Log Date: 10/30/2017

Location ID: ED-0A.08 - SDO2

Interval: 0.75 ft to 1.4 ft

Layer: 3 of 4 Gap: 0.42 ft

Lab Data

Duplicate? - FD LDC
 Grab?
 Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 2 JARS
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Sediment Color: 5Y 4/1
 2nd Sediment Color: 5Y 4/1

Texture
 Sand 40-50% silt 30% clay 15-20
 USDA Texture: loamy sand
 USCS Texture: SM

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____

Grade: Weak Moderate Strong

structureless

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many None

Rocks? <15% NONE 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other None

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Sheets? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: _____ USDA Texture: None

Notes

Tilt? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: MKD
 Data Entry By: Same as above JAS

Sample Remarks

Internal Remarks

10/30 1130

Client: CEC/Arconic
 Site Name: Elliot bldg
 Project Name: 72-367
 Task #: 0001
 Log Date: 10/30/2017

Location ID: FD-00.08-SD02 Interval: 1.4 ft to 2.03 ft

Layer: 4 of 4 Gap: 0.42 ft

Sediment Color: 5Y 4/2 Color: 2.5Y 2.5/1

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1 jar

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

80 sand 15-20 silt

USDA Texture: loamy sand

USCS Texture: SM

Structure

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input checked="" type="checkbox"/> Single Grain	<input type="checkbox"/> Structureless
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other:	

Plasticity

<input type="checkbox"/> Non-plastic	<input checked="" type="checkbox"/>
<input type="checkbox"/> Slightly Plastic	
<input type="checkbox"/> Moderately Plastic	
<input type="checkbox"/> Very Plastic	

Other Characteristics

Rocks? Few None Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other

Shells? None Plant Fragments? None

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Color: 2.5Y 8/1 USDA Texture: Coarse sand

Field Personnel

Logged By: MKD

Data Entry By: Same as above JAS

Sample Remarks

Internal Remarks: 10/30 114G

Notes

TM? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name: Elliot Ditch
 Project Number: 172-367
 Field Location ID: ED-00.25-SD01
 Core Type: Russian Peat Borer, push & hammer
 Field Remarks: used same hole for all 3 cores sediment
 Northing: (ft)
 Easting: (ft)

Cored By: LDC/JAS
 Cored Date: 11/1/2017 (11:46-12:19)
 Described By: JAS
 Described Date: 11/1/2017
 Poked 4.3 ft

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery	
0-1.65'	1.35'	82%	
1.65'-3.30'	1.65'	100%	
3.30-4.30'	1.00'	100%	
0-4.30'	4.00	93%	overall

Reviewed By _____ Date _____

Client: CEC / Accorac
 Site Name: Filthoff Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/1/17

Location ID: ED-00255001 Interval: 0 ft to 0.5 ft

Layer: 1 Gap: ft

Sediment Color: 2.5Y 3/2 Color:
 2nd Sediment Color: 2.5Y 3/2

Lab Data

Duplicates? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Loamy Sand

USCS Texture: SW

Structure

Granular	<input type="checkbox"/>	Grade	Weak	<input type="checkbox"/>
Subangular Blocky	<input type="checkbox"/>		Moderate	<input type="checkbox"/>
Angular Blocky	<input type="checkbox"/>		Strong	<input type="checkbox"/>
Single Grain	<input checked="" type="checkbox"/>			
Massive	<input type="checkbox"/>			
Other:	<input type="checkbox"/>			

structureless

Plasticity

Non-plastic	<input type="checkbox"/>
Slightly Plastic	<input checked="" type="checkbox"/>
Moderately Plastic	<input type="checkbox"/>
Very Plastic	<input type="checkbox"/>

Other Characteristics

Roots?	<input type="checkbox"/> Few	<input type="checkbox"/> None	<input type="checkbox"/> Wood
	<input type="checkbox"/> Common		<input type="checkbox"/> Black Wood
	<input type="checkbox"/> Many		<input type="checkbox"/> Burned Wood
			<input type="checkbox"/> Sawdust
			<input type="checkbox"/> Wood Chips
			<input type="checkbox"/> Wood Pulp
			<input type="checkbox"/> Charcoal

Rocks? <15% None 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other None

Shells? Plant Fragments?

Sublayers? <0.05 ft None 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Wood % 0 %

USDA Texture:

Field Personnel

Logged By: JAS

Data Entry By: Same as above DAK/JAS

Sample Remarks

111 11.46

Notes

TI#? Lacustrine? Sand/gravel bed?



Sediment Log

Version 1.2, 1/20/16

Client: CEC / Arconic
 Site Name: Elliott Ditch
 Project Name: 172367
 Task #: 002
 Log Date: 11/11/17

Location ID: ED-00.25SD01 Interval: 0.57 ft to 3.9 ft

Layer: 2 Gap: ft

Color

Sediment Color: 2.5 Y 2.5/1
 2nd Sediment Color: 2.5 Y 2.5/1

Lab Data

Duplicate?
 Grab?
 Composite?
 Matrix: Sediment
 Soil
 Air
 Water
 # of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: Loam, Coarse S-d

USCS Texture: SW

Type

Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other

Structure

Grade
 Weak
 Moderate
 Strong

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots? Few Common Many
 Rocks? <15%
 15-35%
 35-60%
 60-90%
 >90%
 Odor? Petrochemical
 Sulfur
 Other
 Note

Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color Note

USDA Texture N/A

Field Personnel

Logged By: JAS

Data Entry By: Same as above WCC / JSAK

Sample Remarks

11/1 12:01

Internal Remarks

Lactuline? Sand/gravel bed?

THH?

Lactuline?

Sand/gravel bed?

Notes



Sediment Log

Location ID: ED-002S-SD01 Interval: 351 ft to 43 ft

Client: CEC/Arconic
Site Name: Elliott Ditch
Project Name: 172 367
Task #: 0002
Log Date: 11/1/17

Layer: 3 Gap: [] ft

Color

Sediment Color: 5Y 2.5/2
2nd Sediment Color: 2.5/N 13d

Lab Data

Duplicate? FD
 Grab?
 Composite?
 Matrix: Sediment
 Soil
 Air
 Water
 # of Containers: 2
 Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: sandy clay
 USCS Texture: CH

Structure

Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other: structureless
 Grade: Weak
 Moderate
 Strong

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots? Few None
 Common
 Many
 Rocks? <15%
 15-35%
 35-60%
 60-90%
 >90%
 Odor? Petrochemical
 Sulfur
 Other None
 Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal
 Wood %: 0%
 Shells? Plant Fragments?
 Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft
 Color: 5Y 5/2
 USDA Texture: Clay with medium gravel

Field Personnel

Logged By: JAS
 Data Entry By: Same as above
 [Signature]

Sample Remarks

11/1 12:19
 Sublayer appears thin at a thickness of 0.08 ft

Notes

Lacustrine? Sand/gravel bed?
 TIF?

Sediment Data Sheet

Project Name: Elliot Ditch
Project Number: 172-367
Field Location ID: ED-00.39-SDD2
Core Type: Russian Peat Borer / Push & Hammer
Field Remarks: used same hole for all 3 cores
Northing: (ft)
Easting (ft):

Cored By: LDC/JAS (13:35-14:00)
Cored Date: 11/1/2017
Described By: JAS
Described Date: 11/1/2017
 poled 4.3 ft

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery	
0-1.65	1.50	91%	push
1.65-3.30	1.60	97%	push
3.30-4.30	1.00	100%	push, little hammer
0-4.30	4.10	95%	overall

Reviewed By _____ **Date** _____



Sediment Log

1.65
1.55
2.20

Client: CEC / Arionix
 Site Name: Elizah Ditch
 Project Name: 172 367
 Task #: 60002
 Log Date: 11/1/17

Location ID: ED-0039-SD02 Interval: 0 ft to 2.20 ft

Layer: 1 ft
 Gap: ft

Sediment Color: 10YR 2/2
 2nd Sediment Color: 10YR 3/4

Lab Data

Duplicate? MS/MSD
 Grab?
 Composite?
 Matrix: Sediment
 Soil
 Air
 Water
 # of Containers: 3
 Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Structure

Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other:

Grade: Weak
 Moderate
 Strong

Texture

USDA Texture: loamy coarse sand
 USCS Texture: SM

Other Characteristics

Wood? Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal
 Wood % 5 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft
 Color:
 USDA Texture: N/A

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Roots? Few None
 Common
 Many
 Rocks? <15%
 15-35%
 35-60%
 60-90%
 >90%
 Odor? Petrochemical
 Sulfur
 Other None

Field Personnel

Logged By: JAS
 Data Entry By: Same as above
 LDC

Internal Remarks

Sample Remarks: 11/1 1335

Notes: Tin? Lacustrine? Sand/gravel bed?



Sediment Log

Version 1.2, 11/2016

Client: CEC / Arroyo
 Site Name: Ellisett Ditch
 Project Name: F72 367
 Task #: 0002
 Log Date: 11/17

Location ID: ED-00.39-SD02 Interval: 2.70 ft to 2.41 ft

Layer: 2 Gap: ft

Sediment Color: 2.5Y 4/3 2nd Sediment Color: 2.5Y 4/3

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Sandy Clay loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: structureless

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few None Common Many

Rocks? <15% 15-35% 35-60% 60-90% 90%

Odor? Petrochemical Sulfur Other None

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 % Plant Fragments?

Shells?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: None

USDA Texture:

Field Personnel

Logged By: JAS

Data Entry By: Same as above LOC / BAK / JAS

Sample Remarks

Clay floccular

Internal Remarks

11/1 13210

Notes

TIH? Lustrine? Sand/gravel bed?

Client: CEC / Arconic
 Site Name: Elliot Ditch
 Project Name: 172 367
 Task #: 0002
 Log Date: 11/1/17

Location ID: ED-0039-SD02 Interval: 2.41 ft to 3.54 ft

Layer: 3 Gap: ft

Sediment Color: 2.5Y 2.5/1 2nd Sediment Color: 5Y 6/3

Lab Data

Duplicates? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Sandy Clay with fine shell

USCS Texture: CH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 2.5Y (black)

USDA Texture: clay

Notes

TIH? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above LA

Internal Remarks

N/I 1349



Sediment Log

Version 1.2, 1/20/16

Client: CEC / Arconic
 Site Name: Ellett Ditch
 Project Name: 172 367
 Task #: 0002
 Log Date: 11/17

Location ID: ED-00, 34-SD02 Interval: 3.54 ft to 4.30 ft

Layer: 4 Gap: ft

Sediment Color: 2.5/1 (2.5/10) Color:
 2nd Sediment Color: 5Y 6/3

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Silty Clay

USCS Texture: CH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: structureless

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 2.5/1 2.5/1 USDA Texture: Coarse Sandy loam

Field Personnel

Logged By: JAS

Data Entry By: Same as above WOC / BAK / JAS

Sample Remarks

Internal Remarks: 11/1 14:00

Notes

Tilt? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name: Elliot Ditch
Project Number: 172-367
Field Location ID: ED-00.47-SD02
Core Type: sediment-Russian Reat Borer
Field Remarks:
Northing: (ft)
Easting (ft):

Cored By: SMF
Cored Date: 10/30/17
Described By: JAS/MKD
Described Date: 10/30/17



Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
3.3	3.13	95%

Reviewed By _____ Date _____

Client: SEC/Arconic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 000Z
 Log Date: 10/30/2017

Location ID: ED-00.47-SDOZ

Interval: 0 ft to 0.33 ft

Layer: 1 of 4

Gap: 0.17 ft

Sediment Color: 7.5YR3/1
 2nd Sediment Color: 7.5YR3/1

Lab Data

Duplicate?
 Grab?
 Composite?
 Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: Coarse sand

USCS Texture: SP

Structure

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input checked="" type="checkbox"/> Single Grain	<u>Structureless X</u>
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other	

Plasticity

<input checked="" type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input type="checkbox"/> Moderately Plastic
<input type="checkbox"/> Very Plastic

Other Characteristics

Roots?	<input checked="" type="checkbox"/> Few, none	<input type="checkbox"/> Common	<input type="checkbox"/> Many
Rocks?	<input type="checkbox"/> <15%	<input checked="" type="checkbox"/> 15-35%	<input type="checkbox"/> 35-60%
	<input type="checkbox"/> 60-90%	<input type="checkbox"/> 90%	
Odor?	<input type="checkbox"/> Petrochemical	<input type="checkbox"/> Sulfur	<input checked="" type="checkbox"/> Other, none
Shells?	<input type="checkbox"/> Plant Fragments?	<input checked="" type="checkbox"/>	
Sublayers?	<input type="checkbox"/> <0.05 ft	<input type="checkbox"/> 0.05-0.1 ft	<input type="checkbox"/> 0.1-0.2 ft
	<input type="checkbox"/> 0.2-0.5 ft	<input type="checkbox"/> >0.5 ft	
Wood?	<input type="checkbox"/> Wood	<input type="checkbox"/> Black Wood	<input type="checkbox"/> Burned Wood
	<input type="checkbox"/> Sawdust	<input type="checkbox"/> Wood Chips	<input type="checkbox"/> Wood Pulp
	<input type="checkbox"/> Charcoal		
Wood %	<input type="checkbox"/> %		
USDA Texture	<u>none</u>		

Field Personnel

Logged By: JAS

Data Entry By: Same as above
 MKD

Sample Remarks

Some silt in sample

Internal Remarks

10/30 1410

Notes

Till? Lacustrine? Sand/gravel bed?



TETRA TECH

Sediment Log

Version 1.2, 1/20/15

Client: CEC/Alconic
 Site Name: Elliot Ditch
 Project Name: 17Z-367
 Task #: 0002
 Log Date: 10/30/2017

Location ID: ED-00.47-SDOZ Interval: 0.33 ft to 1.46 ft

Layer: 2 of 4

Gap: 0.17 ft

Sediment Color: N2.5 (black) 2nd Sediment Color: N2.5 (black)

Texture: Silty clay

USDA Texture: CL

USCS Texture: CL

Structure

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	<input type="checkbox"/> structureless X
<input checked="" type="checkbox"/> Massive	
<input type="checkbox"/> Other: _____	

Lab Data

Duplicate?

Grab?

Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots?	<input checked="" type="checkbox"/> Few <u>None</u> <input type="checkbox"/> Common <input type="checkbox"/> Many	Wood?	<input type="checkbox"/> Wood <input type="checkbox"/> Black Wood <input type="checkbox"/> Burned Wood <input type="checkbox"/> Sawdust <input type="checkbox"/> Wood Chips <input type="checkbox"/> Wood Pulp <input type="checkbox"/> Charcoal
Rocks?	<input checked="" type="checkbox"/> <15% <input type="checkbox"/> 15-35% <input type="checkbox"/> 35-60% <input type="checkbox"/> 60-80% <input type="checkbox"/> >80%	Wood %	<input type="checkbox"/> _____ %
Odor?	<input checked="" type="checkbox"/> Petrochemical <input type="checkbox"/> Sulfur <input type="checkbox"/> Other	Shells?	<input type="checkbox"/> Plant Fragments? <input type="checkbox"/> <u>none</u>
		Sublayers?	<input type="checkbox"/> <0.05 ft Color _____ <input type="checkbox"/> 0.05-0.1 ft _____ <input type="checkbox"/> 0.1-0.2 ft _____ <input type="checkbox"/> 0.2-0.5 ft _____ <input type="checkbox"/> >0.5 ft _____

USDA Texture: None

Field Personnel

Logged By: JAS

Data Entry By: Same as above
 MKD

Sample Remarks

Internal Remarks: 10/30 1415

Notes

TII? Lacustrine? Sand/gravel bed?

Client: CEC/Arcenic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 002
 Log Date: 10/30/2017

Location ID: FD-00.47-SDOZ Interval: 1.46 ft to 1.96 ft

Layer: 3 of 4 Gap: 0.17 ft

Sediment Color: 5Y2.5/2 2nd Sediment Color: 5Y2.5/2

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Coarse Sand

USCS Texture: SP

Type

<input type="checkbox"/>	Granular
<input type="checkbox"/>	Subangular Blocky
<input type="checkbox"/>	Angular Blocky
<input checked="" type="checkbox"/>	Single Grain
<input type="checkbox"/>	Massive
<input type="checkbox"/>	Other: _____

Structure

<input type="checkbox"/>	Weak
<input type="checkbox"/>	Moderate
<input type="checkbox"/>	Strong

Grade

Structureless X

Plasticity

<input checked="" type="checkbox"/>	Non-plastic
<input type="checkbox"/>	Slightly Plastic
<input type="checkbox"/>	Moderately Plastic
<input type="checkbox"/>	Very Plastic

Other Characteristics

Roots? Few None Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other None

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments? ? None possibly

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color USDA Texture None

Field Personnel

Logged By: JAS

Data Entry By: Same as above MKD

Sample Remarks

Internal Remarks

10136 1420

There were leaves at top of core however we think they got caught in instrument when it was pushed down through sediment

Notes

THH? Lacustrine? Sand/gravel bed?

Location ID: ED-00.47-SD02 Interval: 1.96 ft to 3.13 ft

Client: CEC/AKRONIC
Site Name: Elliot Ditch
Project Name: 172-367
Task #: 000Z
Log Date: 10/30/2017

Layer: 4 of 4
Gap: 0.17 ft

Sediment Color: 10Y 3/1
2nd Sediment Color: N 2.5 (Black)

Texture: Silty clay
USDA Texture: CL
USCS Texture: CL

Structure Type: Granular
Structure Grade: Weak, Moderate, Strong, Structureless X

Lab Data: Duplicate? [], Grab? [X], Composite? [], Matrix: [X] Sediment, [] Soil, [] Air, [] Water, # of Containers: 1, Priority: [] Urgent (1), [X] Standard (2), [] As Able (3), [] As Needed (4)

Plasticity: Non-plastic [], Slightly Plastic [], Moderately Plastic [X], Very Plastic []

Other Characteristics

Roots? [X] Few, [] Common, [] Many
Rocks? [] <15%, [X] 15-35%, [] 35-60%, [] 60-90%, [] >90%
Odor? [] Petrochemical, [] Sulfur, [X] Other NONE
Wood? [] Wood, [] Black Wood, [] Burned Wood, [] Sawdust, [] Wood Chips, [] Wood Pulp, [] Charcoal
Wood %: [] %
Shells? none, Plant Fragments? [X]
Sublayers? [] <0.05 ft, [] 0.05-0.1 ft, [] 0.1-0.2 ft, [] 0.2-0.5 ft, [] >0.5 ft
Color: [], USDA Texture: []
Notes: Tilt? [], Lacustrine? [], Sand/gravel bed? [X]

Field Personnel

Logged By: JAS
Data Entry By: [] Same as above, [X] MKD

Sample Remarks: Internal Remarks: 10/30 1425

Sediment Data Sheet

Project Name: Elliot Ditch
 Project Number: 172-367
 Field Location ID: ED-00.51-SD02
 Core Type: Russian peat borer, push & hammer
 Field Remarks: The 2nd core was mostly a very liquidy slurry.
 Northing: (ft)
 Easting (ft):

Cored By: LDC/BAK
 Cored Date: 11/1/2017
 Described By: JAS
 Described Date: 11/1/2017

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery	
0 - 1.65'	1.65'	100%	
1.65 - 2.30'	1.65'	254%	
1.65 - 1.75'	0.1	690	- competent material (above slurry as noted above)

Reviewed By _____ Date _____



Sediment Log

Version 1.2, 11/20/16

Client: CEC / Arconic
 Site Name: Elliot Ditch
 Project Name: 17a-367
 Task #: 0002
 Log Date: 11/1/2017

Location ID: ED-00.51-SD02 Interval: 0 ft to 0.36 ft

Layer: 1 Gap: _____ ft

Color
 Sediment Color: 10YR 3/4
 2nd Sediment Color: 10YR 3/4

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: loamy coarse sand
 USCS Texture: SW

Structure

Granular	<input type="checkbox"/>
Subangular Blocky	<input type="checkbox"/>
Angular Blocky	<input type="checkbox"/>
Single Grain	<input checked="" type="checkbox"/>
Massive	<input type="checkbox"/>
Other:	<input type="checkbox"/>

Grade: Weak
 Moderate
 Strong
 Structureless

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots? Few None
 Common
 Many

Rocks? <15% None
 15-35%
 35-60%
 60-90%
 >90%

Odor? Petrochemical
 Sulfur
 Other None

Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal

Wood % 3 %

Shells? Plant Fragments?

Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft

Color
 USDA Texture N/A

Field Personnel

Logged By: JAS
 Data Entry By: Same as above
 LOC

Notes

TH? Lacustrine? Sand/gravel bed?

Sample Remarks: 11/1 14:40

Internal Remarks:



Sediment Log

Client: REC / Arconic
 Site Name: Ellet Ditch
 Project Name: 172 367
 Task #: 0002
 Log Date: 11/17

Location ID: ED-00.51-S002 Interval: 0.36 ft to 0.68 ft

Layer: 2 Gap: ft

Color

Sediment Color: 10YR 2/2
 2nd Sediment Color: few mottles 10YR 4/6

Lab Data

Duplicate?
 Grab?
 Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 1
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: sandy clay loam
 USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:
 Grade: Weak Moderate Strong structureless X

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots? Few NONE Common Many
 Rocks? <15% NONE 15-35% 35-60% 60-90% >90%
 Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood %: 3 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
 Color: N/A
 USDA Texture: N/A

Field Personnel

Logged By: JAS
 Data Entry By: Same as above LOC

Internal Remarks

Sample Remarks: 11/17 1445
 Notes: Lacturine? Sand/gravel bed?
 Tilt?

Sediment Log

Client: CEC/ARRONIC
 Site Name: Fireth Ditch
 Project Name: 172 367
 Task #: 0002
 Log Date: 11/1/17

Location ID: CD-00-51-SD02 Interval: 0.68 ft to 1.65 ft

Layer: 3 Gap: ft

Color

Sediment Color: 2.5/N (black) 2nd Sediment Color: 2.5/N black

Structure

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	<input type="checkbox"/> Structureless <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Massive	
<input type="checkbox"/> Other: <u> </u>	

Texture

USDA Texture: very fine sandy loam

USCS Texture: ML

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Other Characteristics

Wood?	Wood %
<input checked="" type="checkbox"/> Wood	<u>15</u> %
<input type="checkbox"/> Black Wood	
<input type="checkbox"/> Burned Wood	
<input type="checkbox"/> Sawdust	
<input type="checkbox"/> Wood Chips	
<input type="checkbox"/> Wood Pulp	
<input type="checkbox"/> Charcoal	

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 7.5YR4/6

USDA Texture: loamy coarse sand

Plasticity

<input type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input checked="" type="checkbox"/> Moderately Plastic
<input type="checkbox"/> Very Plastic

Rocks? Few None Common Many

Rocks? <15% None 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other None

Notes

Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above LOC/JAS

Internal Remarks

Sample Remarks: 11/1 1450



Sediment Log

Client: CEC/Arconic
 Site Name: Elizabet Ditch
 Project Name: 17a-367
 Task #: 0002
 Log Date: 11/1/2017

Location ID: FED-00.51-SD08 Interval: 1.65 ft to 1.75 ft

Layer: 4 Gap: ft

Color

Sediment Color: 2.5 | 1 (2.5/104)
 2nd Sediment Color: 2.5/1 (2.5/104)

Lab Data

Duplicate?
 Grab?
 Composite?
 Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: fine sandy loam
 USCS Texture: ML

Structure

Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other:

Grade: Structureless
 Weak
 Moderate
 Strong

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Rocks? Few None
 Common
 Many

Rocks? <15% None
 15-35%
 35-60%
 60-90%
 >90%

Odor? Petrochemical
 Sulfur
 Other None

Shells? Plant Fragments?

Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft

Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal

Wood % 3 %

Color
 USDA Texture N/A

Field Personnel

Logged By: JAS
 Data Entry By: Same as above
 LOC

Internal Remarks

11/1 1455

Notes

Tim? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name: Elliot Ditch
 Project Number: 172-367
 Field Location ID: ED-00.60-SD02
 Core Type: Russian Peat Borer/Hammer
 Field Remarks: sediment
 Northing: (ft)
 Easting: (ft)

Cored By: SMF/LDC/JAS
 Cored Date: 10/31/2017 11:40-11:45
 Described By: JAS
 Described Date: 11/2/17

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
--------------	-------	----------	----------------------	----------------	-------------------------

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
--------------------	--------------------------------	------------

st 0-1.65	1.53	93%	11:45 AM
rd 1.65-3.30	1.65	100%	12:09 PM
0-3.30	3.17	96% overall	

Reviewed By _____

Date _____



Sediment Log

Version 1.2, 11/20/16

Client: Cec/Arcenic
 Site Name: Elliot Ditch
 Project Name: 172 367
 Task #: 2002
 Log Date: 11/2/17

Location ID: ED-00.60-SDG2 Interval: 0 ft to 1.76 ft

Layer: 1 Gap: 0.12 ft

Sediment Color: 10YR 3/2 2nd Sediment Color: 2.5N (black)
grades downward

Lab Data

Duplicate? NS/MSD
 Grab?
 Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 3
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: loamy coarse sand
 USCS Texture: SW

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____
 Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few None Common Many
 Rocks? <15% 15-35% 35-60% 60-90% >90%
 Petrochemical Sulfur Other None
 Odor? Slight Moderate Strong
 Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood % 0 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
 Color: _____
 USDA Texture: _____
 Notes: _____
 Tilt? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS
 Data Entry By: Same as above LDC

Sample Remarks

Internal Remarks: 10/31 1140



TETRA TECH

Sediment Log

Version 1.2, 1/20/16

Client: CEC / Arconic
 Site Name: Elliot Ditch
 Project Name: 172 367
 Task #: 0002
 Log Date: 11/2/17

Location ID: ED-00-60-SD02 Interval: 1.76 ft to 2.22 ft

Layer: 2 Gap: 0 ft

Sediment Color: 5Y 3/1 2nd Sediment Color: 2.5Y 4/2

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: sandy clay

USCS Texture: CH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few None Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other NONE

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 2.5Y 4/1

USDA Texture: loamy coarse sand

Field Personnel

Logged By: JAS

Data Entry By: Same as above LDC

Sample Remarks

Sublayer located @ bottom of layer 2 (0.04ft)

Internal Remarks

10/31 11:41

Notes

Till? Lacustrine? Sand/gravel bed?

Client: CEC / Arcenic
 Site Name: Elliott Ditch
 Project Name: 172 367
 Task #: 0007
 Log Date: 11/2/17

Location ID: ED-00.60-SD02 Interval: 2.22 ft to 2.39 ft

Layer: 3 Gap: 0 ft

Sediment Color: 2.5/N (black) 2nd Sediment Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: silty clay

USCS Texture: 0

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few None Common Many

Rocks? <15% None 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other None

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture: N/A

Field Personnel

Logged By: JAS

Data Entry By: Same as above WPC

Internal Remarks

Sample Remarks: 10131 1142

Notes

Till? Lacustrine? Sand/gravel bed?

Client: CCC / Arcovis
 Site Name: Elliot Ditch
 Project Name: 172 367
 Task #: 0002
 Log Date: 11/2/17

Location ID: ED-00.60-SD07 Interval: 2.39 ft to 2.63 ft

Layer: 4 Gap: 0 ft

Sediment Color: 2.5-5/4 2nd Sediment Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers:

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: sandy clay

USCS Texture: CH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other None

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture: N/A

Field Personnel

Logged By: JAS

Data Entry By: Same as above LDC

Internal Remarks

10/31 1143

Notes

TIN? Lacustrine? Sand/gravel bed?

Client: CEC / Arcenic
 Site Name: Elliott Ditch
 Project Name: 172 367
 Task #: 0007
 Log Date: 11/2/17

Location ID: CD-00.60-SD02 Interval: 2.63 ft to 3.3 ft

Layer: S Gap: 0 ft

Color

Sediment Color: 5Y 2.5/1
 2nd Sediment Color: 2.5Y 4/4
grades downward in color to ↑

Texture

USDA Texture: loamy sand
 USCS Texture: SW

Structure

Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other: _____

Grade: Weak
 Moderate
 Strong

Lab Data

Duplicate? Grab? Composite?
 Matrix: Sediment
 Soil
 Air
 Water
 # of Containers: 1
 Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Field Personnel

Logged By: JAS
 Data Entry By: Same as above
 LOJ

Other Characteristics

Roots? Few None
 Common
 Many

Rocks? <15%
 15-35%
 35-60%
 60-90%
 >90%

Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft

Color: _____
 USDA Texture: _____

Notes: _____

Till? Lacustrine? Sand/gravel bed?

Internal Remarks

Sample Remarks: _____
10/31 1144

Sediment Data Sheet

Project Name: Elliot Ditch
 Project Number: 172-367
 Field Location ID: ED-00.72-SD03
 Core Type: Russian Peat Borer
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: SMF/LDC/JAS
 Cored Date: 10/31/2017
 Described By: JAS
 Described Date: 10/31/2017

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-1.65			^{core type} Russian Peat Borer/ Push sediment	^{time} (13:15)	
1.65-3.30			Russian Peat Borer/ Push Sediment	(13:25)	
3.30-4.30			Russian Peat Borer/ Hammer Sediment	(13:44)	

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery	
st 0-1.65	1.37	83%	Had full recovery, but top washed out
nd 1.65-3.30	1.65	100%	
rd 3.30-4.30	1.0	100%	

Reviewed By _____ Date _____

Client: Cec/Arcenic
 Site Name: Elliott Ditch
 Project Name: 17a-367
 Task #: 0002
 Log Date: 10/31/2017

Location ID: ED-00.7a-SD03 Interval: 0.0 ft to 2.06 ft

Layer: 1 Gap: 0.28 ft

Color

Sediment Color: Gley 1 (2.5/10Y)
 2nd Sediment Color: Gley 1 (2.5/10Y)

Lab Data

Duplicate?
 Grab?
 Composite?
 Matrix: Sediment
 Soil
 Air
 Water
 # of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: Loamy coarse sand
 USCS Texture: SW

Type

Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other

Structure

Grade
 Weak
 Moderate
 Strong
Structureless

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Field Personnel

Logged By: JAS
 Data Entry By: Same as above

Other Characteristics

Roots? Few None
 Common
 Many
 Rocks? <15%
 15-35%
 35-60%
 60-90%
 >90%
 Odor? Petrochemical
 Sulfur
 Other None
 Shells? Plant Fragments?
 Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft
 Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal
 Wood % %
 Slight
 Moderate
 Strong

Notes

TIN? Lacustrine? Sand/gravel bed?

Internal Remarks

13:15
10/31

Sample Remarks

N/A

USDA Texture

Client: CEC / Arroyo
 Site Name: Elisatt Ditch
 Project Name: 172-367
 Task #: 002
 Log Date: 10/31/2017

Location ID: GD-0072-SD03 Interval: 2.06 ft to 2.40 ft

Layer: 2 Gap: 0.28 ft

Color

Sediment Color: 2.5Y 4/2 2nd Sediment Color: Grey 3/N

Lab Data

Duplicate? Gmb? Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: JAS
 Data Entry By: Same as above LDC/SAS

Texture

USDA Texture: sandy clay
 USCS Texture: CH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other
 Grade: Weak Moderate Strong
structureless

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many
 Rocks? <15% 15-35% 35-60% 60-90% >90%
 Odor? Petrochemical Sulfur Other

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood % 0 %

Shells? Plant Fragments?
 Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
 Color: N/A
 USDA Texture:

Internal Remarks

Sample Remarks: 13.25 10/31

Notes

X None
 TIF? Lacustrine? Sand/gravel bed?

Client: CCC / Arconic
 Site Name: Elliott Ditch
 Project Name: F72-367
 Task #: 0607
 Log Date: 10/31/17

Location ID: CD-06.72-SD03 Interval: 2.40 ft to 3.50 ft

Layer: 3 Gap: ft

Color

Sediment Color: 2.5Y 3/2 2nd Sediment Color: 2.5N (black)

Lab Data

Duplicate? FD
 Grab?
 Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 2
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: sandy clay loam
 USCS Texture: ML

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other
 Grade: Weak Moderate Strong
Structureless X

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few None Common Many
 Rocks? <15% 15-35% 35-60% 60-90% ≥90%
 Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood %: 0 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft multiple Color 2.5Y 3/2
 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
 Odor? Petrochemical Slight Moderate Strong
 Sulfur Other
 Notes: Lacustrine? Sand/gravel bed?
 Tilt? USDA Texture: silty clay

Field Personnel

Logged By: JAS
 Data Entry By: Same as above LOC/JAS

Internal Remarks

Sample Remarks: 13:30
10/31

Client: CEC / Arcenic
 Site Name: Elliott Ditch
 Project Name: 172 367
 Task #: 0002
 Log Date: 10/31/17

Location ID: E0-00.72-5003 Interval: 3.50 ft to 3.84 ft

Layer: 4
 Gap:

3rd Sediment
 Color:
 2.5Y 6/3

Sediment Color: 2.5Y 2.5/1
 2nd Sediment Color: 2.5N (black)

Lab Data

Duplicate?

Grab?

Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: sandy clay

USCS Texture: CH

Structure

Type

Granular

Subangular Blocky

Angular Blocky

Single Grain

Massive

Other:

Grade

Weak

Moderate

Strong

Structureless

Plasticity

Non-plastic

Slightly Plastic

Moderately Plastic

Very Plastic

Other Characteristics

Roots? Few None
 Common
 Many

Rocks? <15% None
 15-35%
 35-60%
 60-90%
 >90%

Odor? Petrochemical
 Sulfur
 Other None

Shells? Plant Fragments?

Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft

Color

USDA Texture

Notes

Tim? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above

LPC/JAS

Sample Remarks

Internal Remarks

13.35
10/31



Sediment Log

Client: CEC / Arconic
 Site Name: Elliott Ditch
 Project Name: 172 367
 Task #: 0007
 Log Date: 10/31/17

Location ID: EO-0072-SD03 Interval: 3.81 ft to 4.05 ft

Layer: 5 Gap: ft

Sediment Color: 5Y 4/3 Color
 2nd Sediment Color: 5Y 2.5/1

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: coarse sandy loam

USCS Texture: MH

Structure

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	<input checked="" type="checkbox"/> Structureless
<input checked="" type="checkbox"/> Massive	
<input type="checkbox"/> Other:	

Plasticity

<input type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input checked="" type="checkbox"/> Moderately Plastic
<input type="checkbox"/> Very Plastic

Other Characteristics

<input type="checkbox"/> Few	<input type="checkbox"/> Very Fine	<input type="checkbox"/> Wood
<input type="checkbox"/> Common	<input type="checkbox"/> Fine	<input type="checkbox"/> Black Wood
<input type="checkbox"/> Many	<input type="checkbox"/> Medium	<input type="checkbox"/> Burned Wood
	<input type="checkbox"/> Coarse	<input type="checkbox"/> Sawdust
	<input type="checkbox"/> Very Coarse	<input type="checkbox"/> Wood Chips
		<input type="checkbox"/> Wood Pulp
		<input type="checkbox"/> Charcoal

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other NONE

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color USDA Texture

Field Personnel

Logged By: JAS

Data Entry By: Same as above LOC / JAS

Internal Remarks

Sample Remarks: 13:40 10/31

Notes: TMI? Lacustrine? Sand/gravel bed?

Client: CEC
 Site Name: Ellisport Ditch
 Project Name: 172 367
 Task #: 0002
 Log Date: 10/31/17

Location ID: CD-00772-SD03 Interval: 4.05 ft to 4.30 ft

Layer: 6 ft
 Gap: ft

Sediment Color: G1ey1
2.5/1 (2.5/EGY)
 2nd Sediment Color: 101R 516

Lab Data

Duplicate?
 Grab?
 Composite?
 Matrix: Sediment
 Soil
 Air
 Water
 # of Containers: 1
 Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: sandy loam
 USCS Texture: ML

Structure

Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other:
 Grade: Weak
 Moderate
 Strong
Structureless

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Rocks? Few NONE
 Common
 Many
 Rocks? <15%
 15-35%
 35-60%
 60-90%
 ≥90%
 Odor? Petrochemical
 Sulfur
 Other NONE
 Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal
 Wood % 0 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft
 Color
 USDA Texture N/A

Field Personnel

Logged By: JAS
 Data Entry By: Same as above
 LDC/JAS

Internal Remarks

13:45
10/21

Notes

T11? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name: Elliot Ditch
Project Number: 172-367
Field Location ID: ED-00.82-SD02
Core Type: Push, Lexan 2" tube, sediment
Field Remarks:
Northing: (ft)
Easting (ft):

Cored By: SMF/LDC/JAS
Cored Date: 10/31/2017
Described By: JAS
Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery	
0-0.8	0.7	88%	10:53 Am

Reviewed By _____ Date _____

Client: CFC / Arcenic
 Site Name: Elmth Ditch
 Project Name: H2 367
 Task #: 0 002
 Log Date: 11/2/17

Location ID: ED-00.82-SD02 Interval: 0 ft to 0.39 ft

Layer: 1 Gap: ft

Sediment Color: 2.5Y 3/2 Color:
 2nd Sediment Color:

Lab Data

Duplicate? MS, MD
 Grab?
 Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 3
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: coarse sand
 USCS Texture: SW

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other
 Grade: Weak Moderate Strong
structureless

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Roots? Few None Common Many

Rocks? <15% None 15-35% 35-60% 60-90% 90%

Odor? Petrochemical Sulfur Other N/A

Other Characteristics

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture: N/A

Field Personnel

Logged By: JAS
 Data Entry By: Same as above

Internal Remarks

Sample Remarks: 10/31 1050

T/H? Lacustrine? Sand/gravel bed?

Notes

Client: CCC / Arcanite
 Site Name: Elliot's Ditch
 Project Name: 177 367
 Task #: 0007
 Log Date: 11/1/2017

Location ID: ED-00.82-SD02 Interval: 0.39 ft to 0.7 ft

Layer: 2 ft
 Gap: ft

Sediment Color: 2.5Y 3/2 Color
 2nd Sediment Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers:

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Loamy Sand

USCS Texture: SM

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

structureless

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other N/A

Very Fine Fine Medium Coarse Very Coarse

Fine Gravel Medium Gravel Coarse Gravel Cobbles

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % <5 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color USDA Texture N/A

Field Personnel

Logged By: JAS

Date Entry By: Same as above

Internal Remarks

10/31 1055

Notes

TIN? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name: Elliot Ditch
 Project Number: 172-367
 Field Location ID: ED-01.03-SD02
 Core Type: Sediment- Peat Borer/Hammer
 Field Remarks: sediment
 Northing: (ft)
 Easting (ft):

Cored By: SMF/LDC/JAS
 Cored Date: 10/30/2017 19 05-17:30
 Described By: JAS
 Described Date: 11/2/17

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
--------------	-------	----------	----------------------	----------------	-------------------------

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
st 0-1.65	1.26	76%
nd 1.65-2.25	0.6	100%
0-2.25	1.86	83% overall

Reviewed By _____ Date _____



Sediment Log

Version 1.2, 11/20/16

Client: CEC / Arcenic
 Site Name: ELIOTT DITCH
 Project Name: 172 367
 Task #: 0007
 Log Date: 11/2/17

Location ID: ED-01.03-SD02 Interval: 0 ft to 0.98 ft

Layer: 1 Gap: 0.39 ft

Color

Sediment Color: 5Y 3/2
 2nd Sediment Color: []

Lab Data

Duplicate? FD
 Grab?
 Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 2
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: loamy coarse sand
 USCS Texture: SW

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: []
 Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many
 Rocks? <15% 15-35% 35-60% 60-80% >80%
 Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood %: <15 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
 Color: []
 USDA Texture: N/A

Field Personnel

Logged By: JAS
 Data Entry By: Same as above VOC

Notes

Tim? Lacustrine? Sand/gravel bed?
 Internal Remarks: 10/30 1705



Soil Log

Version 1.2, 1/20/16

Sediment

Client: CEC / Avconic
 Site Name: Elliott Ditch
 Project Name: 172 367
 Task #: 0002
 Log Date: 11/2/17

Location ID: EP-01.03-SD03
 Interval: 0.98 ft to 1.65 ft

Layer Horizon: 2
 Gap: 0 ft

Soil Color: 5Y2.5/1
 2nd Soil Color:

Lab Data

Duplicate? FD
 Grab?
 Composite?
 Matrix: Sediment
 Soil
 Air
 Water
 # of Containers: 2
 Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: sandy clay loam
 USCS Texture: MLT

Structure

Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other:
 Grade: Weak
 Moderate
 Strong

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots? Few None
 Common
 Many
 Rocks? <15%
 15-35%
 35-60%
 60-90%
 >90%
 Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal
 Wood % 0 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft
 Color:
 USDA Texture:
 Notes: Lacustrine? Sand/gravel bed?
 Tilt?

Field Personnel

Logged By: JAS
 Data Entry By: Same as above
 LOC

Sample Remarks

Internal Remarks: 10/30 1710

Client: CFC / Arconic
 Site Name: Alliant Ditch
 Project Name: 72 367
 Task #: 0002
 Log Date: 11/2/17

Location ID: ED-0103-SD02 Interval: 1.65 ft to 1.87 ft

Layer Horizon: 3 Gap: 0 ft

Soil Color: 2.5/N (black) 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Sandy clay loam

USCS Texture: WH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other: None

Shells? Plant Fragments?

Wood? Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: JAS

Data Entry By: Same as above LDC

Sample Remarks

Internal Remarks

K130 1730

Notes

Tim? Lacustrine? Sand/gravel bed?

N/A

Client: Cec Arconic
 Site Name: Elliptic Ditch
 Project Name: # 177 367
 Task #: 0002
 Log Date: 11/2/17

Location ID: FD-01.03-SD02 Interval: 1.87 ft to 2.25 ft

Layer: L1
 Horizon: L1
 Gap: 0 ft

Soil Color: 2.5/1 (2.5/104) 2nd Soil Color: []
 Color: []

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: sandy clay

USCS Texture: CH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few None Common Many

Rocks? <15% None 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Slight Sulfur Moderate Other None Strong

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: [] USDA Texture: N/A

Field Personnel

Logged By: JAS

Data Entry By: Same as above LDC

Notes

Tim? Lacustrine? Sand/gravel bed?

Sample Remarks: 10/30 1735

Internal Remarks: []

Sediment Data Sheet

Project Name: Elliot Ditch
Project Number: 172-367
Field Location ID: ED-01.14-SD02
Core Type: Russian peat borer, push
Field Remarks: poling depth 1.56ft
Northing: (ft)
Easting (ft):

Cored By: LDC/JAS
Cored Date: 11/1/2017
Described By: JAS
Described Date: 11/2/17

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0 - 1.05'	0.841	76%

Reviewed By _____ Date _____



Sediment Log

Version 1.2, 11/20/18

Client: Cec / Arconic
 Site Name: Ellisott Ditch
 Project Name: 172 367
 Task #: 0002
 Log Date: 11/21/17

Location ID: ED-0114-SD02 Interval: 0 ft to 1.05 ft

Layer: 1 Gap: 0.21 ft

Sediment Color: 2.5Y 3/2 Color: []
 2nd Sediment Color: []

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: loamy coarse sand

USCS Texture: SW

Structure

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input checked="" type="checkbox"/> Massive	
<input type="checkbox"/> Other: <u>[]</u>	

Plasticity

<input checked="" type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input type="checkbox"/> Moderately Plastic
<input type="checkbox"/> Very Plastic

Other Characteristics

Roots? Few None Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other None

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: [] USDA Texture: N/A

Field Personnel

Logged By: JAS

Data Entry By: Same as above LDC

Internal Remarks

Sample Remarks: 12017

Notes: 11/6 0924

TH? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

substitute point for ED-01.24-SD02

Project Name: Elliot Ditch
Project Number: 17a-367
Field Location ID: ED-01.22-SD02 + ms
Core Type: Lexan, 2" ϕ , push
Field Remarks: piling depth 0.7ft
Northing: (R)
Easting (ft):

Cored By: LDC/JAS
Cored Date: 11/11/2017 10:50
Described By: JAS
Described Date: 11/2/17

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
--------------	-------	----------	----------------------	----------------	-------------------------

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-0.68	0.33	49%

Reviewed By _____ Date _____



Sediment Log

Version 1.2, 1/20/16

Client: CEC/Arconic Location ID: ED-01.22-SD02 Interval: 0 ft to 0.17 ft

Site Name: Elliot Ditch Layer: 1 Gap: ft
Project Name: 172-367 Sediment Color: 10YR 3/2
Task #: 0002 2nd Sediment Color:
Log Date: 11/2/2017 Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Fine sandy loam

USCS Texture: SW

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: structureless

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other None

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture: N/A

Field Personnel

Logged By: JAS

Data Entry By: Same as above

Sample Remarks

11/1 10:50

This is a replacement point for ED-01.24-SD02. Mile marker distance is approximate. Check GPS for coordinates.

Notes

THP? Lacustrine? Sand/gravel bed?

Client: CEC / Anderson
 Site Name: Elliott Ditch
 Project Name: FZ 367
 Task #: 0002
 Log Date: 11/2/17

Location ID: ED-01.22-SD02 Interval: 0.17 ft to 0.29 ft

Layer: 2 ft
 Gap: ft

Sediment Color: 5Y 5/4 Color
 2nd Sediment Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: sandy clay

USCS Texture: CH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

structureless

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other N/A

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Sheiks? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color USDA Texture N/A

Field Personnel

Logged By: JFS

Date Entry By: Same as above

Internal Remarks

11/1 10:55

Notes

TIF? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Replacement for ED-01.39-

Project Name: Elliott Ditch
Project Number: 172367
Field Location ID: ED-01.37-SD03
Core Type: Russian peat borer, push
Field Remarks: piling depth 0.9ft
Northing: (ft)
Easting: (ft)

Cored By: LDC/BAK
Cored Date: 11/2/17
Described By: JAS
Described Date: 11/2/17

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
--------------	-------	----------	----------------------	----------------	-------------------------

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
--------------------	--------------------------------	------------

0-0.9'	0.86	96%
--------	------	-----

Reviewed By _____ Date _____

Client: CEC / Arconic
 Site Name: Clayton Dick
 Project Name: 172 367
 Task #: 0007
 Log Date: 11/2/17

Location ID: ED-0137-SD03 Interval: 0 ft to 0.9 ft

Layer: 1 Gap: 0.04 ft

Sediment Color: 10YR 2/2 2nd Sediment Color: []

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: Loamy coarse sand

USCS Texture: SW

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: structureless

Grade: Weak Moderate Strong

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots? Few None Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other: None

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 10YR 2/2 USDA Texture: Loamy fine sand

Field Personnel

Logged By: JAS

Data Entry By: Same as above

Sample Remarks

Replacement for ED-0139-SD03
0.86/0.90'

Internal Remarks

11/2/2017
0950

Notes

TH#? Lacustrine? Sand/gravel bed?

11.07

Sediment Data Sheet

Project Name: Elliot Ditch
Project Number: 172-367
Field Location ID: ED-01.49-SD03
Core Type: Russian Peat Borer/Hammer
Field Remarks: sediment
Northing (ft):
Easting (ft):

Cored By: SMF/LDC/JAS
Cored Date: 10/31/2017
Described By: JAS
Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery	
0-1.1	1.05	95%	10:23 AM
Poled to 1.3'; could not drive deeper than 1.1'			

Reviewed By _____ Date _____

Client: CCC/Arconic
 Site Name: Elliot Ditch
 Project Name: 172367
 Task #: 000Z
 Log Date: 11/2/17

Location ID: ED-0149-SD03 Interval: 0 ft to 0.7 ft

Layer: 1 ft Gap: ft

Color
 Sediment Color: 10YR 4/4
 2nd Sediment Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: coarse sand

USCS Texture: SW

Structure

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input checked="" type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other	

Structureless

Plasticity

<input checked="" type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input type="checkbox"/> Moderately Plastic
<input type="checkbox"/> Very Plastic

Other Characteristics

Roots? Few None
 Common
 Many

Rocks? <15%
 15-35%
 35-60%
 60-90%
 >90%

Odor? Petrochemical
 Sulfur
 Other None

Shells? Plant Fragments?

Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal

Wood % 0 %

Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft

Color
 USDA Texture None

Field Personnel

Logged By: JAS

Data Entry By: Same as above

Sample Remarks

Internal Remarks

10/31/17
10:23

Notes

Tim? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name: *Elliott Ditch*
 Project Number: *172-367*
 Field Location ID: *ED-00.54-SD03*
 Core Type: *Sediment Pent - Borer*
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: *BAK/DMM*
 Cored Date: *1/30/18*
 Described By: *MWB*
 Described Date: *1/31/18*

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
1.0' <i>1.0'</i>	<i>0.91'</i>	

Picture 3
Time: 07:50 - 07:57

Reviewed By _____ Date _____

Figure 2. Sample hard-copy print-out from electronic data logging system. Hard copies will be archived as a backup to the electronic system

Page 1 of 2

Sediment Log Version 1.2, 1/20/16

Client: CEC/Arcadis Location ID: ED-00.54-SD03 Interval: 0 ft to 0.45 ft

Site Name: Elliott Ditch Layer: 1 of 2 Gap: 0 ft

Project Name: 172-367 Sediment Color: 10YR 2/1 2nd Sediment Color: 10YR 2/2

Task #: 0006 Texture: coarse sand Structure: Structureless

Log Date: 1/31/18 USDA Texture: SP USCS Texture: SP

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1 jar Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: MWS Data Entry By: Same as above

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other Asph

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 5 % Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes

Till? Lacustrine? Sand/gravel bed?

Internal Remarks: 1/30/18
07:56-07:57

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 2 of 2

Sediment Log
Version 1.2, 1/20/16

Client: CEC/Arconic
 Site Name: Elliott Ditch
 Project Name: 172-367
 Task #: 0006
 Log Date: 1/31/18

Location ID: ED-00-54-SD03
 Interval: 0.45 ft to 0.91 ft
 Layer: 2 of 2
 Gap: 0 ft

Lab Data
 Duplicate?
 Grab?
 Composter?
 Matrix: Sediment
 Soil
 Air
 Water
 # of Containers: 1
 Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture
 USDA Texture: loamy sand
 USCS Texture: SM

Color
 Sediment Color: 2.5Y 3/1
 2nd Sediment Color: 5Y 2.5/1

Structure
 Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other:
 Grade: Weak
 Moderate
 Strong
Structureless

Other Characteristics
 Rocks? Few
 Common
 Many
 Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal
 Wood % 0 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft
 Color:
 USDA Texture:
 Rocks? <15%
 15-35%
 35-60%
 60-90%
 >90%
 Odor? Petrochemical
 Sulfur
 Other Hydro
 Slight
 Moderate
 Strong
 Notes
 Till? Lacustrine? Sand/gravel bed?

Plasticity
 Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Field Personnel
 Logged By: MPS
 Data Entry By: Same as above

Internal Remarks
1/30/18
07:50-07:57

Sample Remarks

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

APPENDIX IV
SOIL FIELD DATA SHEETS

Sediment Data Sheet

Soil

Project Name:
 Project Number:
 Field Location ID: GD-06.08-SLG1
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: BAK M WB
 Cored Date: 10/30 11:07-11:34
 Described By: JAS
 Described Date: 11/2/17

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<u>1.5-2.0</u>					
<u>1.8</u>					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<u>2.0-1.5</u>	<u>0.4</u>	
<u>1.5-1.0</u>	<u>0.34</u>	
<u>0.5-1.0</u>	<u>0.5</u>	
<u>0.0-0.5</u>	<u>0.5</u>	

Reviewed By _____ Date _____



Soil Log

Client: CEC / Arconic
 Site Name: Elliott Ditch
 Project Name: 177 367
 Task #: 0007
 Log Date: 11/2/17

Location ID: ED-00.08-56.01 Interval: 0 ft to 0.5 ft

Horizon: 1A Gap: 0 ft

Soil Color: 6YR 2.5/1 2nd Soil Color:
 Color

Lab Data

Duplicate? MS(MSP)
 Grab?
 Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 3
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: 10AM
 USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:
 Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many
 Rocks? <15% NONE 15-35% 35-60% 60-90% >90%
 Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood %: 0 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
 Color: USDA Texture:
 Petrochemical: Slight Moderate Strong
 Sulfur: Other: NONE
 Odor?
 T/M? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS
 Data Entry By: Same as above LSC

Internal Remarks

10/30 1107

Notes

So. | Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: ED-00.08-SLO4
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: BAK MWB
 Cored Date: 10/30 13:18-13:44
 Described By: JAS
 Described Date: 11/2

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-0.5	0.46	
0.5-1.0	0.36	
1.0-1.5	0.35	
1.5-2.0	0.5	

Reviewed By _____ Date _____

Client: CFL/Arconk
 Site Name: ~~ED-00-08-SLO4~~ Elliot Ditch
 Project Name: ED-00-08-SLO4
 Task #: 0002
 Log Date: 11/2/2017

Location ID: ED-00-08-SLO4 Interval: 0 ft to 0.67 ft

Horizon: 0 Gap: 0.18 ft

Soil Color: 7.5 YR 3/1 2nd Soil Color:
 Color

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: silt loam

USCS Texture: MH

Structure

Granular	<input type="checkbox"/>	Weak	<input checked="" type="checkbox"/>
Subangular Blocky	<input type="checkbox"/>	Moderate	<input type="checkbox"/>
Angular Blocky	<input checked="" type="checkbox"/>	Strong	<input type="checkbox"/>
Single Grain	<input type="checkbox"/>		
Massive	<input type="checkbox"/>		
Other	<input type="checkbox"/>		

Plasticity

Non-plastic

Slightly Plastic

Moderately Plastic

Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other None

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color USDA Texture

Notes

Till? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK/JAS/LDC

Sample Remarks

10/30 1318

Client: CEC / Arroyo
 Site Name: Elleot Ditch
 Project Name: 122-367
 Task #: 0000
 Log Date: 1/2/2017

Location ID: ED-00.08-SLO4 Interval: 0.67 ft to 0.86 ft

Horizon: 1A Gap: 0 ft

Soil Color: 2.5 Y 5/3 2nd Soil Color: 7.5YR 5/8 3rd Soil Color: 2.5/N (block)

Texture: sandy clay Structure: MOISTLES

USDA Texture: CH USCS Texture: CH

Type		Grade	
<input type="checkbox"/>	Granular	<input type="checkbox"/>	Weak
<input type="checkbox"/>	Subangular Blocky	<input checked="" type="checkbox"/>	Moderate
<input checked="" type="checkbox"/>	Angular Blocky	<input type="checkbox"/>	Strong
<input type="checkbox"/>	Single Grain		
<input type="checkbox"/>	Massive		
<input type="checkbox"/>	Other:		

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% None 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other NONE

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % % % %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color USDA Texture

Notes

Till? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above BLK

Sample Remarks

Internal Remarks

10/30 1327

Client: CEC / Arcenic
 Site Name: Ellisville Ditch
 Project Name: 172-367
 Task #: 0502
 Log Date: 11/2/17

Location ID: ED-00.08-SLO4 Interval: 0.86 ft to 2.0 ft

Horizon: 2A Gap: 6.15 ft

Soil Color: 5YR 2.5/1 2nd Soil Color:
 Color

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 2

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: sandy loam
 USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other None

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color USDA Texture

Notes: Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS
 Data Entry By: Same as above LDC

Sample Remarks

0.86-1.36 bag extra soil if needed for FD

Internal Remarks

10130
0.86-1.86 13:39
1.5-2.0 13:44

Sediment Data Sheet

Soil

Project Name:
 Project Number:
 Field Location ID: ED-00-008-SLO3
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: BAK
 Cored Date: 10/30/2017
 Described By: [Signature]
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					12:20
0.5-1.0					12:33
1.0-1.5					12:45
1.5-2					12:53

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
S 0.0-0.5	.45	90%
S 0.5-1.0	.34	68%
S 1.0-1.5	.48	96%
S 1.5-2.0	.32	64%

Reviewed By _____ Date _____

Client: CFC/Aconic
 Site Name: Ellie's Ditch
 Project Name: 172-367
 Task #: 002
 Log Date: 11/21/2017

Location ID: ED-00.08-SLO3 Interval: 0 ft to 0.5 ft

Horizon: 0 Gap: 0.05 ft

Soil Color: S1R 3/1 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: sandy clay loam

USCS Texture: ML

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Slight Sulfur Moderate Other NAH Strong

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % <5 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes

Till? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: SJS

Data Entry By: Same as above BAK WSC

Sample Remarks

Internal Remarks

10/30 12:20

Client: CEC / Arcane
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2017

Location ID: ED-00.08-SLO3 Interval: 0.5 ft to 0.97 ft

Horizon: 1A Gap: 0.16 ft

Soil Color: 10YR 5/6 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: loamy sand

USCS Texture: SM

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few None Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other NO

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 6 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: TAS

Data Entry By: Same as above BAK WOC

Notes

Tim? Lacustrine? Sand/gravel bed?

Sample Remarks:

Internal Remarks: 10/30 12:33



Soil Log

Client: CEC / Arroyo
 Site Name: Flittott Ditch
 Project Name: 172 367
 Task #: 2
 Log Date: 11/2/17

Location ID: ED-00.08-803 Interval: 0.97 ft to 2.0 ft

Horizon: 2A Gap: 0.20 ft

Soil Color: 5YR 2.5/1 2nd Soil Color:
 Color

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: very fine sandy loam

USCS Texture: ML

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other None

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % %

Color USDA Texture

Field Personnel

Logged By: JAS

Data Entry By: Same as above LX

Internal Remarks

10/30
 0.97 - 1.17 @ 12:45
 1.5 - 2.0 @ 12:53

Notes

TM? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: ED-00.25-5602
 Core Type:
 Field Remarks:
 Northing: (R)
 Easting (ft):

Cored By: BAK
 Cored Date: 10/30/2017
 Described By:
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					16:01
0.5-1	-			hole in center of core in top 0.45' - incr in diameter w/ depth they terminate 5' - not observed in 1 st core	16:09

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.5	100%

Reviewed By _____ Date _____

Client: CEC / Arconic
 Site Name: Eliot Ditch
 Project Name: 173-367
 Task #: 0002
 Log Date: 11/3/2017

Location ID: ED-00.25-SLO2 Interval: 0 ft to 0.5 ft

Horizon: 0 Gap: 0 ft

Soil Color: 2.5YR 2.5/1 2nd Soil Color:

Lab Data

Duplicate? FD
 Grab? UDC
 Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other None

Roots? Very Fine Fine Medium Coarse Very Coarse

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 4 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK UDC

Sample Remarks

Internal Remarks

10/30 16:01

Notes

TM? Lacustrine? Sand/gravel bed?

Location ID: ED-00.25-SLO2 Interval: 0.5 ft to 0.62 ft

Client: CEC/Arcenic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 1/2/2017

Horizon: 1A Gap: 0 ft

Soil Color: 10YR 5/6 2nd Soil Color: 10YR 2/1

Lab Data

Duplicate? Grab? Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 1

Texture

USDA Texture: loam
 USCS Texture: ML

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____
 Grade: Weak Moderate Strong

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots? Few Common Many
 Rocks? <15% 15-35% 35-60% 60-90% >90%
 Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood % %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
 Color: _____
 USDA Texture: _____
 Petrochemical Slight Moderate Strong
 Sulfur
 Other: NOA
 Notes: _____
 TIM? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS
 Data Entry By: Same as above ISAK W

Internal Remarks

note thru center of core missing root?

Sample Remarks

10/30 16:09

Client: CEL/Arroyo
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 002
 Log Date: 11/2/2017

Location ID: ED-0025-SL02 Interval: 0.62 ft to 1.0 ft

Horizon: 2A Gap: 0 ft

Soil Color: 7.5YR3/2 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: Sandy loam

USCS Texture: MH

Type

Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other:

Structure

Weak
 Moderate
 Strong

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 15 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color **USDA Texture**

Notes

TM? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK LOC

Sample Remarks

hole through center

Internal Remarks

10/30/17 16:10

Sediment Data Sheet

Soil

Project Name:
 Project Number:
 Field Location ID: ED - 00 25 - S104
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: BAK
 Cored Date: 10/30/2017
 Described By:
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0.-0.5					14:54
0.5-1.0					15:01
1.0 -1.5					15:20
1.5-2					15:27

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.34	68%
0.5	0.3	60%
0.5	0.5	100%

Reviewed By _____ Date _____



TETRA TECH

Soil Log

Version 1.2, 1/20/16

Client: CEL / Arcville
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2017

Location ID: ED-00.25-SLO4 Interval: 0 ft to 2.0 ft
 Horizon: 0A Gap: 0.36 ft

Soil Color: 7.5YR 2.5/1 2nd Soil Color:
 Color

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 4

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Sandy loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other N/A

Shells? Plant Fragments?

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % %

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 10YR 5/3

USDA Texture: Sandy clay loam

Field Personnel

Logged By: JAS

Data Entry By: Same as above JAK ioc

Sample Remarks

Internal Remarks

10/30 @ 1454
0-0.5 @ 1501
0.5-1.0 @ 1526
1.0-1.5 @ 1527
1.5-2.0 @ 1527

Notes

Lacustrine? Sand/gravel bed?

Till?

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: FD-06.25-SLO3
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: BAK
 Cored Date: 10/30/2017
 Described By:
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<u>0-0.5</u>					<u>16-30</u>
<u>0.5-1.0</u>					<u>16-51</u>
0.0-0.5					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<u>0.5</u>	<u>.46</u>	<u>92%</u>
<u>0.5</u>	<u>.25</u>	<u>50%</u>
	<u>.71</u>	
	<u>.24</u>	

Reviewed By _____ Date _____

Client: Arroyo / CEL
 Site Name: El Estero D. Tech
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2017

Location ID: ED-00.25-SLO3 Interval: 0 ft to 1.0 ft
 Horizon: A Gap: 0.29 ft
 Color

Soil Color: 5YR 2.5/1 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2 2 (2)

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: sandy loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few 0.3-1.0 Common 0.0-0.3 Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other NO

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color USDA Texture

Notes

Till? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK LDC

Sample Remarks

10/30/17
0-0.5 1630
0.5-1.0 1651

Internal Remarks

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: **ED-00.39-5601**
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: **BAK**
 Cored Date: **10/31/2017**
 Described By:
 Described Date: **11/2**

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					8:11
0.5-1.0					8:17

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.2	40%

Reviewed By _____ Date _____



Soil Log

Client: CEL/Arcenic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 1/2/2012

Location ID: ED-00.39-SLO1 Interval: 0 ft to 1.0 ft

Horizon: 0 Gap: 0.3 ft

Lab Data

Duplicate? MS(MSD) (0-0.5)
 Grab?
 Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 1 loc
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Soil Color: 7.5YR 3/2 2nd Soil Color: 10R 4/6
 Mottles found from 0.25-0.5' (non nodules)

Texture

USDA Texture: loam
 USCS Texture: ML

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____
 Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many
 in top 0-25"
 Rocks? <15% 15-35% 35-60% 60-90% >90%
 Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood % _____
 Shells? Plant Fragments?
 Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
 Color _____
 USDA Texture _____

Field Personnel

Logged By: TAS
 Data Entry By: Same as above BAK loc

Internal Remarks

10/31
 0-0.5 8:11 MS(MSD)
 0.5-1.0 8:17

Notes

Till? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: ED - 00.39 - SL03
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: RAK
 Cored Date: 10/31/2017
 Described By:
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					8:31
0.5-1.0					8:37
1.0-1.5					8:44

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.41	82%
0.5	0.5	100%

Reviewed By _____ Date _____

Client: CEC/Arctic
 Site Name: Elliott Ditch
 Project Name: 17P-367
 Task #: 0002
 Log Date: 11/2/2017

Location ID: ED-0039 - SLO3 Interval: 0 ft to 0.69 ft

Horizon: 0 Gap: 0.09 ft

Soil Color: 10 YR 2/1 2nd Soil Color:

Lab Data

Duplicate? FD
 Grab?
 Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 22
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Texture

USDA Texture: loam
 USCS Texture: MH

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 10 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 2.5 YR 5/8
 USDA Texture: Redox concretions

Field Personnel

Logged By: JAS
 Data Entry By: Same as above BAK LPC

Notes

TM? Lacustrine? Sand/gravel bed?

Internal Remarks: 10/31 0831

Location ID: ED-00.39-SLO3 Interval: 0.69 ft to 0.98 ft

Client: CEC/Aronic
 Site Name: Elliot Ditch
 Project Name: 170-367
 Task #: 0007
 Log Date: 11/2/2017

Horizon: 1A Gap: 0 ft

Soil Color: 7.5YR 4/3 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 2

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: Sandy loam

USCS Texture: SM

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots? Few Common (1-4) Many

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Rocks? <15% 15-35% 35-60% 60-90% >90%

Shells? Plant Fragments?

Odor? Petrochemical Slight Moderate Strong Sulfur Other None

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color:

USDA Texture:

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK DC

Internal Remarks

Sample Remarks: 10/31 0837

Notes: Tim? Lacustrine? Sand/gravel bed?

Client: CEC / Arcadia
 Site Name: Elliot Ditch
 Project Name: 172-767
 Task #: 0002
 Log Date: 11/2/2017

Location ID: ED-10.34-SL03 Interval: 0.98 ft to 1.17 ft

Horizon: 2A Gap: 0 ft

Soil Color: 7.5YR 2.5/1 2nd Soil Color:
 Color

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: 100mm

JSCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color USDA Texture

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK/DC

Notes

TH? Lacustrine? Sand/gravel bed?

Sample Remarks:

Internal Remarks: 10/31 6840

Client: CEC / Arcenic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2017

Location ID: ED-00.39-SL03 Interval: 1.17 ft to 1.5 ft
 Horizon: B Gap: 0 ft

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Soil Color: 10YR 4/4 2nd Soil Color: 10YR 3/1

Texture

USDA Texture: Silty loam

USCS Texture: ML

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other NONE

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: TAS

Data Entry By: Same as above BAK 100

Internal Remarks

10/31 0844

Notes

Till? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: ED-00.39-SLO4
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Corer By: BAK
 Cored Date: 10/31/2017
 Described By:
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5			0.25	50 %	9:02
0.5-1.0			0.5	100 %	9:06
1.0-1.5			0.2	40 %	9:13

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery

Reviewed By _____ Date _____

Client: CEL/Arconic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2017

Location ID: ED-0039-SC04 Interval: 0 ft to 1.5 ft

Horizon: 0 Gap: ft

Soil Color: 5YR 2.5/1 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 3.2 (LDC)

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: 10GM

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% None 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other NONE

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: SAS

Data Entry By: Same as above BAK LDC

Sample Remarks

insuff. recovery 1-1.5' to sample

Internal Remarks

10/31 0.0-0.5 @ 0902 0.5-1.0 @ 0906

Notes

TM? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: **0E1D-00.47-SL01**
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: **BAK**
 Cored Date: **10/31/2017**
 Described By:
 Described Date: **11/2**

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					10:04
0.5-1					10:11

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.19	38%

Reviewed By _____ Date _____

Client: C&C/Aconic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2012

Location ID: ED-00.47-SLO1 Interval: 0 ft to 1.0 ft

Horizon: 0 ft
 Gap: ft

Soil Color: 5YR 2.5/2 2nd Soil Color:
 Color

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: sandy loam

USCS Texture: SM

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Slight Sulfur Moderate Other Strong

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: <5 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes: Lacustrine? Sand/gravel bed? Till?

Field Personnel

Logged By: SAS

Data Entry By: Same as above BAK LO

Sample Remarks

insuff recovery / to sample 05-10

Internal Remarks

10/31 1004

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: ED-00.47-SLO3
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: BAK
 Cored Date: 10/31/2017
 Described By: III/21/17
 Described Date: JAS

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					10:23
0.5-1.0			total depth 0.77 (LDC)		10:31

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	.34	68%
0.5	.43	86%

Reviewed By _____ Date _____

Client: CEL / ~~Acorn~~ Acorn
 Site Name: Elliot Dike
 Project Name: 172-83
 Task #: 0002
 Log Date: 11/2/2017

Location ID: E1D-00.47-SLO3 Interval: 0 ft to 0.77 ft

Horizon: A Gap: 0.23 ft

Soil Color: 10YR 3/1 2nd Soil Color: 10YR 5/3
Found around some roots

Lab Data

Duplicate? FD
 Grab?
 Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 2
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____
 Grade: Weak Moderate Strong

Texture

USDA Texture: sandy clay loam
 USCS Texture: SC

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots? Few Common Many
 Rocks? <15% 15-35% 35-60% 60-90% >90%
 Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood %: _____ %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
 Color: _____
 USDA Texture: _____

Field Personnel

Logged By: JAS
 Data Entry By: Same as above BAK / JAS

Notes

Internal Remarks: _____
 Sample Remarks: 10/31 2023

Tim? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name:
 Project Number: ED-00.47-SLO4
 Field Location ID:
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: BAK
 Cored Date: 10/31/2017
 Described By:
 Described Date: 11/2

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<u>0-0.5</u>					<u>10:46</u>
<u>0.5-1.0</u>	<u>0.80</u>		<u>WDC</u>		<u>10:53</u>

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<u>0.5</u>	<u>0.39</u>	<u>78%</u>
<u>0.5</u>	<u>0.30</u>	<u>60% 100%</u>

Reviewed By _____ Date _____

Client: CGL/Arconic
 Site Name: Elliot Ditch
 Project Name: 17A-367
 Task #: 0002
 Log Date: 11/2/2017

Location ID: ED-00.47-SLO4 Interval: 0 ft to 0.80 ft

Horizon: 0 Gap: 0.11 ft

Soil Color: 5YR 2.5/1 2nd Soil Color: []
 Color

Lab Data

Duplicate? Grab? Composite?

Metric: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: loam

USCS Texture: SM

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: []

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Rocks? <15% 15-35% 35-60% 60-90% >90%

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: []

Odor? Petrochemical Sulfur Other NONE

Notes: Lacustrine? Sand/gravel bed? Till?

Field Personnel

Logged By: JAS

Data Entry By: Same as above BSK LOC

Sample Remarks

Internal Remarks: 10/31 1046

USDA Texture

[]

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: ED - 00.51 - SLO3
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: BAK
 Cored Date: 10/31/2017
 Described By:
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					12:05
0.5-1.0					12:12

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.47	94%

Reviewed By _____ Date _____

Client: CEL/Arconic
 Site Name: 172-367 → Elliot Ditch
 Project Name:
 Task #: 0002
 Log Date: 11/2/2017

Location ID: FD-00.51 - SLO3 Interval: 0 ft to 1.0 ft

Horizon: A Gap: 0.03 ft

Soil Color: 5Y 2.5/1 2nd Soil Color: 10YR 6/14

Lab Data

Duplicate? FD-0-0.5
 Grab? 0.5-1.0
 Composite? FD-0-0.5

Matrix: Sediment Soil Air Water

of Containers: 13

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Silty loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Rocks? Few None Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other None

Other Characteristics

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 2.5YR 2.5/1

Field Personnel

Logged By: SAS

Data Entry By: Same as above SAR/LOC

Internal Remarks

10/31
0.0-0.5 @ 12.05
0.5-1.0 @ 12.12

Notes

Tim? Lacustrine? Sand/gravel bed?

loam and decaying leaves

USDA Texture

2.5YR 2.5/1

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: *ED-00.51-SLO1*
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: *BAK*
 Cored Date: *6/31/2017*
 Described By:
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<i>0-0.5</i>					<i>11:35</i>
<i>0.5-1.0</i>					<i>11:41</i>

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<i>0.5</i>	<i>0.39</i>	<i>78%</i>
<i>0.5</i>	<i>0.5</i>	<i>100%</i>

Reviewed By _____ Date _____

Client: C&L/Accenic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0602
 Log Date: 11/2/2017

Location ID: ED-00.S1-SLA Interval: 0 ft to 1.0 ft

Horizon: A Gap: ft

Soil Color: 5YR 2.5/1 2nd Soil Color: 10YR 6/6

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 72 LOC

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: very fine sandy loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other NOV

Roots? Very Fine Fine Medium Coarse Very Coarse

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % <5 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: JAS

Data Entry By: Same as above JAK/LDC

Internal Remarks

10/31
0.6-0.5 @ 1135
0.5-1.0 @ 1141

Sample Remarks

Bottom 0.5-1.0' wet

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: ED - 00.60 - SLO1
 Core Type:
 Field Remarks:
 Northing: (N)
 Easting (ft):

Corer By: BAK
 Cored Date: 10/31
 Described By:
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					13:23
0.5-1.0					13:29

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.28	56%

Reviewed By _____ Date _____

Client: CFC / Arconic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/7/2017

Location ID: ED-00.60-SLO3 Interval: 0 ft to 0.89 ft

Horizon: 0 Gap: 0.22 ft

Soil Color: 2.5Y 3/2 2nd Soil Color:

Lab Data

Duplicate? MS/MSD
 Grab?
 Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 43
 Priority: Urgent Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: 100m
 USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other None

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 43 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: JAS
 Data Entry By: Same as above BAK VDC

Sample Remarks

Internal Remarks

10/31 1323

Notes

Till? Lacustrine? Sand/gravel bed?

Client: LEC / Areas
 Site Name: Elliott Ditch
 Project Name: 177-367
 Task #: 0002
 Log Date: 11/2/2017

Location ID: E1-00.50 - SLOZ Interval: 0.89 ft to 1.0 ft

Horizon: A Gap: ft

Soil Color: 10YR 5/4 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Sandy clay

USCS Texture: CH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few None Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other None

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Notes:

Till? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK WCC

Internal Remarks

10/31 1329

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: **ED - 00.60 - SLO3**
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: **BAK**
 Cored Date: **10/31/2017**
 Described By:
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					13:41
0.5-1.0					13:49

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.38	76%
0.5	0.47	94%

Reviewed By _____

Date _____

Client: CEC / Arcenic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2017

Location ID: ED-00.60-SLO1 Interval: 0 ft to 0.19 ft

Horizon: 0 ft
 Gap: 0 ft

Soil Color: 5YR 3/1 2nd Soil Color:
 Color

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: silt loam

USCS Texture: ML

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% None 15-35% 35-60% 60-90% ≥80%

Odor? Petrochemical Sulfur Other NOVA

Roots? Very Fine Fine Medium Coarse Very Coarse

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes

Till? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK LOC

Sample Remarks

10/31 1341

Internal Remarks

Client: CEL / Aronic
 Site Name: Felton Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2016

Location ID: FD-00.60-SLO1 Interval: 0.25 ft to 1.0 ft

Horizon: A Gap: 0.15 ft

Soil Color: 10YR 5/6 2nd Soil Color: 10YR 4/2

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: loamy sand

USCS Texture: SM

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other None

Roots? Very Fine Fine Medium Coarse Very Coarse

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color USDA Texture

Notes: Lustrine? Sand/gravel bed? Thin?

Field Personnel

Logged By: BTAS

Data Entry By: Same as above BAK LOC

Sample Remarks

Internal Remarks: 10/31 1349

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: *EP-00.72-SL01*
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: *BAK*
 Cored Date: *10/31/2017*
 Described By: *JAS*
 Described Date: *11/2*

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<i>0-0.5</i>					<i>14:05</i>
<i>0.5-0.51.0</i>					<i>14:13</i>

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<i>0.5</i>	<i>0.5</i>	<i>100%</i>
<i>0.5</i>	<i>0.28</i>	<i>56%</i>

Reviewed By _____ Date _____

Client: CEL/Arconic
 Site Name: Elliot Ditch
 Project Name: 172-267
 Task #: 0002
 Log Date: 11/2/2017

Location ID: E1D-0072-SL01 Interval: 0 ft to 1.0 ft

Horizon: 0 Gap: 0.22 ft

Soil Color: 5YR 2.5/1 2nd Soil Color: 2.5/W (black)
gradual change color grades

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: clay loam

USCS Texture: CH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Rocks? <15% None 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other XXX

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color:

USDA Texture:

Field Personnel

Logged By: SAS

Data Entry By: Same as above ISAK LOC

Sample Remarks

10/31 0-0.5 @ 1405
0.5-1.0 @ 1413

Notes

THI? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: *ED-00.72-5602*
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: *Bak*
 Cored Date: *10/31/2017*
 Described By:
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<i>0-0.5</i>					<i>14:56</i>
<i>0.5-1.0</i>					<i>14:57</i>
<i>1.0-1.5</i>					<i>15:04</i>

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<i>0.5</i>	<i>0.5</i>	<i>100%</i>
<i>0.5</i>	<i>0.30</i>	<i>60%</i>
<i>0.5</i>	<i>0.48</i>	<i>96%</i>
	<i>1.28</i>	

Reviewed By _____ Date _____

Client: CEL/ARRCO Location ID: ED-0072-5102 Interval: 0 ft to 1.5 ft

Site Name: Ellet Ditch Horizon: A Gap: 0.22 ft

Project Name: 172-367 Task #: 0002 Log Date: 11/2/07 11/3/17

Lab Data LOC

Soil Color: 10YR 2/2 2nd Soil Color:

Color

USDA Texture: Sandy loam

USCS Texture: SM

Structure

Type

Grade

Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other

Weak
 Moderate
 Strong

Duplicate?

Grab?

Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 3 (LOC)

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Field Personnel

Logged By: SAS

Data Entry By: Same as above SAS

Internal Remarks: LOC SAS

Sample Remarks: moist @ bottom (1.25") but not wet

10/31	0. - 0.5	14 50
	0.5 - 1.0	14 51
	1.0 - 1.5	15 04

Other Characteristics

Rocks? None

Rocks? Few
 Common
 Many

Roots? Very Fine
 Fine
 Medium
 Coarse
 Very Coarse

Wood? Wood
 Black Wood 0.15'
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal

Wood % < 5 %

Shells? Plant Fragments?

Rocks? <15%
 15-35%
 35-60%
 60-90%
 90%

Odor? Petrochemical
 Sulfur
 Other NONE

Slight Moderate Strong

Notes

Sublayers?

Color

USDA Texture

TP? Lacustrine? Sand/gravel bed?

Few redox concretions at bottom of core

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: *EA-00.72-SL04*
 Core Type:
 Field Remarks:
 Northing (ft):
 Easting (ft):

Cored By: *BAK*
 Cored Date: *10/21/2017*
 Described By:
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<i>0-0.5</i>					<i>15.39</i>
<i>0.5-1.0</i>					<i>15.46</i>

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<i>0.5</i>	<i>0.50</i>	<i>100%</i>
<i>0.5</i>	<i>0.20</i>	<i>40%</i>

Reviewed By _____ Date _____

Client: LEC / Arconic
 Site Name: Ellick Ditch
 Project Name: 172 - 367
 Task #: 1007
 Log Date: 11/20/17 LOC

Location ID: ED-00.72-SLO4 Interval: 0 ft to 0.1 ft
 Horizon: 0 ft Gap: 0 ft

Soil Color: 7.5YR 2.5/1 2nd Soil Color:
 Color

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: sandy clay loam

USCS Texture: MH

Structure

Type	Grade
<input type="checkbox"/> Granular	Weak <input type="checkbox"/>
<input checked="" type="checkbox"/> Subangular Blocky	Moderate <input checked="" type="checkbox"/>
<input type="checkbox"/> Angular Blocky	Strong <input type="checkbox"/>
<input type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other: <u> </u>	

Plasticity

<input type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input type="checkbox"/> Moderately Plastic
<input checked="" type="checkbox"/> Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% None 15-35% 35-60% 60-90% 90%

Odor? Petrochemical Sulfur Other None

Roots? Very Fine Fine Medium Coarse Very Coarse

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % % 0

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color USDA Texture

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK LOC

Notes

Tim? Lacustrine? Sand/gravel bed?

Sample Remarks:

Internal Remarks: 10/31 1539

Client: CEL/Arcenic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 4/2/2017 11:31:17

Location ID: E15-00.72 - SLO4 Interval: 0.11 ft to 0.47 ft

Horizon: 1A Gap: 0 ft

Soil Color: 7.5YR 4/2 2nd Soil Color: 10YR 8/1

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Coarse sandy loam

USCS Texture: SM

Structure

Type	Grade
<input type="checkbox"/> Granular	<input checked="" type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input checked="" type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other:	

Plasticity

<input type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input type="checkbox"/> Moderately Plastic
<input checked="" type="checkbox"/> Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other NOX

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 7.5YR 5/8 USDA Texture: Redox concretions

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK LOC

Sample Remarks

Internal Remarks: 10/31 1540

found sporadically in

Client: CEC/Arconic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/13/17

Location ID: ED-00.72-SLO4 Interval: 0.47 ft to 1.0 ft

Horizon: 2A Gap: 0.3 ft

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Soil Color: G11 (Gley 1) 2nd Soil Color: 5YR 2.5/1

Color: 6/10Y

3rd soil color: 10YR 5/2

1 horizon is mottled - all 3 colors approx equal %

Texture

USDA Texture: Very coarse sandy clay

USCS Texture: CH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other NONE

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 7.5YR 5/8

USDA Texture: Minor color - potential redox iron concentration

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK

Internal Remarks

10/31 1546

Notes

TIN? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name:
Project Number:
Field Location ID: ED-0082-5601
Core Type:
Field Remarks:
Northing: (ft)
Easting: (ft)

Cored By: BAA
Cored Date: 10/31/2017
Described By: [Signature]
Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
--------------	-------	----------	----------------------	----------------	-------------------------

0-0.5

16.04

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
--------------------	--------------------------------	------------

0.5

0.5

~~0.5~~ 100%

Reviewed By _____

Date _____

Client: CEL/Arconic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 4/2/2017 11/3/17

Location ID: ED-00.82-S101 Interval: 0 ft to 0.22 ft

Horizon: 1A Gap: 0 ft

Soil Color: 10YR 3/2 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Texture: 10AM USDA Texture: USCS Texture: SM

Structure

Type	Granular	<input type="checkbox"/>
	Subangular Blocky	<input checked="" type="checkbox"/>
	Angular Blocky	<input type="checkbox"/>
	Single Grain	<input type="checkbox"/>
	Massive	<input type="checkbox"/>
	Other:	<input type="checkbox"/>

Grade

Weak	<input checked="" type="checkbox"/>
Moderate	<input type="checkbox"/>
Strong	<input type="checkbox"/>

Plasticity

Non-plastic	<input type="checkbox"/>
Slightly Plastic	<input type="checkbox"/>
Moderately Plastic	<input type="checkbox"/>
Very Plastic	<input checked="" type="checkbox"/>

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other NOV

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Wood? Wood

Black Wood	<input type="checkbox"/>
Burned Wood	<input type="checkbox"/>
Sawdust	<input type="checkbox"/>
Wood Chips	<input type="checkbox"/>
Wood Pulp	<input type="checkbox"/>
Charcoal	<input type="checkbox"/>

Wood % <5 %

Color USDA Texture

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK / LOC

Internal Remarks

Sample Remarks

10/31 16:04

Notes

T#? Lacustrine? Sand/gravel bed?

Client: CEL/Arconic
 Site Name: Elliott Ditch
 Project Name: 172-363
 Task #: 0007
 Log Date: 11/3/17

Location ID: ED-00082-SL01 Interval: 0.22 ft to 0.5 ft

Horizon: 2A Gap: 0 ft

Soil Color: 10YR 5/4 2nd Soil Color:
 Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: sandy loam

USCS Texture: SM

Structure

Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other:

Grade: Weak
 Moderate
 Strong

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots? Few
 Common
 Many

Rocks? <15%
 15-35%
 35-60%
 60-90%
 >90%

Odor? Petrochemical
 Sulfur
 Other None

Shells? Plant Fragments?

Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft

Color:
 USDA Texture:

Notes:

T/H? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: SAS

Data Entry By: Same as above
 BAK LSC

Internal Remarks

10/31 16:05

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: **E17 - 00.87 - S103**
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: **BAK**
 Cored Date: **10/31/2017**
 Described By:
 Described Date: **11/3**

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					16011
0.5-1					16015

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.45	90%
0.5	0.43	86%

Reviewed By _____ Date _____

Client: CEL / Arwinc
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 4/2/2012 11:31A

Location ID: ED-00.82-SLO3 Interval: 0 ft to 0.5 ft

Horizon: 1A Gap: 0.65 ft

Soil Color: 2.5Y 3/3 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: loamy sand

USCS Texture: SM

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% Over-all 35-60% ~0.25-0.5 60-90% >90%

Odor? Petrochemical Sulfur Other N/A

Shells? Plant Fragments?

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % %

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: SAS

Data Entry By: Same as above BAK LDC

Sample Remarks

gravel concentrated at bottom all coarser gravel @ bottom of horizon dry

Internal Remarks

10/31 1611

Notes

TI? Lacustrine? Sand/gravel bed?

Client: CEC / Arcenic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 002
 Log Date: 11/3/17

Location ID: ED-0082-SLO3 Interval: 0.5 ft to 1.0 ft

Horizon: 2A Gap: 0.07 ft

Soil Color: 10YR 3/1 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: loam

USCS Texture: ML

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other: None

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes: Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK / LOC / JAS

Sample Remarks

Some moisture (not wet)

Internal Remarks

10/31 1615

Sediment Data Sheet

Project Name:

Project Number:

Field Location ID: ED - 00.82 - SLO 4

Core Type:

Field Remarks:

Northing: (ft)

Easting: (ft)

Cored By: BAK

Cored Date: 10/31/2017

Described By: JAS

Described Date: 11/2

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
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0-0.5

16:34

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
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0.5

0.5

100%

Reviewed By _____

Date _____

Client: CEL / Arcenic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2017

Location ID: E15-06.82-SLO4 Interval: 0 ft to 0.13 ft

Horizon: 0 ft
 Gap: 0 ft

Soil Color: 5YR 2.5/2 2nd Soil Color:
 Color

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: 100mm

USCS Texture: 1A1

Structure

Type

<input type="checkbox"/>	Granular
<input checked="" type="checkbox"/>	Subangular Blocky
<input type="checkbox"/>	Angular Blocky
<input type="checkbox"/>	Single Grain
<input type="checkbox"/>	Massive
<input type="checkbox"/>	Other: <u> </u>

Grade

<input type="checkbox"/>	Weak
<input type="checkbox"/>	Moderate
<input checked="" type="checkbox"/>	Strong

Plasticity

<input type="checkbox"/>	Non-plastic
<input type="checkbox"/>	Slightly Plastic
<input type="checkbox"/>	Moderately Plastic
<input checked="" type="checkbox"/>	Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other None

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color USDA Texture

Notes

TIN? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: SAS

Data Entry By: Same as above BAK VCC

Sample Remarks

Internal Remarks

10/31 HOS
1634
(PC)

Client: CE/Agronic Location ID: ED-00.82-404 Interval: 0.13 ft to 0.5 ft

Site Name: Elkton Ditch Horizon: A Gap: 0 ft
 Project Name: 172-367 Soil Color: 10YR 5/4 2nd Soil Color:
 Task #: 0002 Texture: Very fine sandy loam Structure:
 Log Date: 11/2/2017 USDA Texture: MH USCS Texture:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Field Personnel

Logged By: SAS
 Data Entry By: Same as above BSAC LOC

Structure

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input checked="" type="checkbox"/> Moderate
<input checked="" type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other: <u> </u>	

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other None

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes

TIH? Lacustrine? Sand/gravel bed?

Sample Remarks

Internal Remarks

10/31 +118
1635
(LOC)

Client: CEC/Arconic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2017

Location ID: ED-00.08-SL01 Interval: 0.5 ft to 1.0 ft

Horizon: 2A₂ Gap: 0 ft

Soil Color: 2.5Y 3/2 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Coarse sandy loam

USCS Texture: MH

Structure

Type	Grade
<input type="checkbox"/> Granular	Weak <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Subangular Blocky	Moderate <input type="checkbox"/>
<input type="checkbox"/> Angular Blocky	Strong <input type="checkbox"/>
<input type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other: <u> </u>	

Plasticity

Non-plastic

Slightly Plastic

Moderately Plastic

Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? ≤15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other

Roots? Very Fine Fine Medium Coarse Very Coarse

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 2.5Y 6/6
2.5Y 6/6 (black)
2.5YR 4/8

USDA Texture:

Notes: Redox concentration
Few fine-medium
→ minor stains

Field Personnel

Logged By: SAS

Data Entry By: Same as above BAK

Internal Remarks

10/30 1116

Notes

TM? Lacustrine? Sand/gravel bed?

Client: CEC/Arconic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2017

Location ID: ED-00.08-SLO1 Interval: 1.0 ft to 1.86 ft

Horizon: 3A Gap: 0.16 ft

Soil Color: 5YR 3/2 2nd Soil Color: 7.5YR 4/3

Lab Data

Duplicate?
 Grab?
 Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: JAS
 Data Entry By: Same as above LOC

Structure

Type	Grade
<input checked="" type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other	

Texture

USDA Texture: Silty loam

USCS Texture: MH

Other Characteristics

Roots?	<input type="checkbox"/> Few	<input checked="" type="checkbox"/> Common	<input type="checkbox"/> Many	Wood?	<input type="checkbox"/> Wood	<input type="checkbox"/> Black Wood	<input type="checkbox"/> Burned Wood	<input type="checkbox"/> Sawdust	<input type="checkbox"/> Wood Chips	<input type="checkbox"/> Wood Pulp	<input type="checkbox"/> Charcoal
Rocks?	<input checked="" type="checkbox"/> <15%	<input type="checkbox"/> 15-35%	<input type="checkbox"/> 35-60%	<input type="checkbox"/> 60-90%	<input type="checkbox"/> >90%	Wood % <u>0</u> %					
Odor?	<input type="checkbox"/> Petrochemical	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Other	Shells? <input type="checkbox"/>			Plant Fragments? <input type="checkbox"/>			Color	
	<input type="checkbox"/> Slight	<input type="checkbox"/> Moderate	<input type="checkbox"/> Strong	Sublayers? <input checked="" type="checkbox"/>						<u>2.5YR 4/8</u>	

Notes: None

TM? Lacustrine? Sand/gravel bed?

USDA Texture: 3AA - Redox concentration few, fine-medium

Internal Remarks

10130
1.0-1.86 11:22

Sample Remarks

Client: CEC / Arconic
 Site Name: Elliott Ditch
 Project Name: 177 367
 Task #: 0002
 Log Date: 11/2/17

Location ID: GD-00-08-SLO1 Interval: 1.86 ft to 2.0 ft

Horizon: 4A Gap: 0.1 ft

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Soil Color: 2.5Y 2.5/1 2nd Soil Color:

Texture

USDA Texture: Silty clay

USCS Texture: CH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Slight Sulfur Moderate Other None Strong

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 % Plant Fragments?

Shells?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture: N/A

Notes: Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above DOC

Sample Remarks

Internal Remarks

10/30/17 1134

BAK MWR

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: ED-01.03-SL01
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: BHK
 Cored Date: 11/1/2017
 Described By:
 Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<u>0-0.5</u>					<u>9:32</u>

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<u>0.5</u>	0.5 <u>.47</u>	100% <u>94%</u>

Reviewed By _____ Date _____

Client: CEC / Arcenic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/3/17

Location ID: E17-01.03-SL01 Interval: 0 ft to 0.5 ft

Horizon: A Gap: 0.03 ft

Soil Color: 7.5YR 3/2 2nd Soil Color: 10YR 7/6
 Color: SPOTCHECK

Lab Data

Duplicate? FD
 Grab?
 Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 2
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____
 Grade: Weak Moderate Strong

Texture

USDA Texture: Silty loam
 USCS Texture: MH

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many
 Rocks? <15% 15-35% 35-60% 60-90% >90%
 Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood %: 0 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
 Color: _____
 USDA Texture: _____

Field Personnel

Logged By: JAS
 Data Entry By: Same as above BAK/LOC

Notes

Internal Remarks: _____
 Sample Remarks: 11/1 0932

Till? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: ED-01.03-SL63
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: BAK
 Cored Date: 10/31/2017
 Described By:
 Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					17:05
0.5-1.0					17:13

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.38	76%

Reviewed By _____ Date _____

Client: CEL/Arcadis
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2017 11:31:17

Location ID: ED-01.03-SL03 Interval: 0 ft to 0.21 ft

Horizon: 0 Gap: 0 ft

Soil Color: 7.5YR 2.5/1 Color
 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Loam

USCS Texture: ML

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Rocks? <15% None 15-35% 35-60% 60-90% ≥90%

Other Characteristics: Very Fine Fine Medium Coarse Very Coarse

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color

USDA Texture

Odor? Petrochemical Sulfur Other NONE

Slight Moderate Strong

Notes: Tilt? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK

Sample Remarks

Internal Remarks

10/31 1705

Client: CEC / Arcenic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0602
 Log Date: 11/3/17

Location ID: ED-01.03-SLO3 Interval: 0 ft to 1.0 ft

Horizon: A Gap: 0.12 ft

Soil Color: 2.5Y 5/4 2nd Soil Color: 7.5YR 2.5/1

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: sandy loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____

Grade: Weak Moderate Strong

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other NONE

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: _____ USDA Texture: _____

Field Personnel

Logged By: SAS

Data Entry By: Same as above BAK LOC JAS

Sample Remarks

Internal Remarks

10/31 1713

Notes

Till? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name:
Project Number:
Field Location ID: ED - 01.14 - SLO1
Core Type:
Field Remarks:
Northing: (ft)
Easting (ft):

Cored By: BAK
Cored Date: 11/1/17
Described By: JAS
Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
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0-0.5
~~0-0.5~~

10:01

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
--------------------	--------------------------------	------------

0.5 - 0.5 100%

Reviewed By _____ Date _____

Client: GEL/ARONIC
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2017 11/3/17

Location ID: ED-01.14-SL01 Interval: 0 ft to 0.5 ft

Horizon: A Gap: 0 ft

Soil Color: 10YR 2/2 2nd Soil Color: 10YR 5/6

Lab Data

Duplicate? MS/MSD
 Grab? LDC
 Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 2 3 LDC
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Sandy loam
 USCS Texture: SM

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____
 Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many
 Rocks? <15% 15-35% 35-60% 60-90% ≥90%
 Petrochemical Sulfur Other NONE
 Odor? Slight Moderate Strong
 Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood % 0 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
 Color: _____
 USDA Texture: N/A

Field Personnel

Logged By: JAS
 Data Entry By: Same as above BAK/TAS/LDC

Sample Remarks

Internal Remarks: 11/1 1001

Notes

TI#? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: ED - 01.14 - 5103
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Corer By: BAK
 Cored Date: 11/1/17
 Described By:
 Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<u>0-0.5</u>					<u>10:22</u>
<u>0.5-1.0</u>					<u>10:29</u>

Core Interval (ft)	Measured Sediment in Core (ft)		% Recovery
<u>0.5</u>	<u>(0.55)</u>	<u>0.5</u>	<u>100% (110%)</u>
<u>0.5</u>		<u>0.45</u>	<u>90%</u>
<hr/>			
<u>1.0</u>		<u>1.0</u>	<u>100%</u>

Reviewed By _____ Date _____

Client: CEL/Arctic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/27/2013 11/3/17

Location ID: FD-01.14-SL03 FD Interval: 0 ft to 1.0 ft

Horizon: A Gap: 0 ft

Soil Color: 7.5YR 2.5/1 2nd Soil Color:

Lab Data

Duplicate? - FD (0.5-1.0)
 Grab? - (0.5-1.0)
 Composite? - (0.5-1.0)

Matrix: Sediment Soil Air Water

of Containers: 1/3 LDC

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: 100AM

USCS Texture: M+1

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Petrochemical: Sulfur Other: NONE

Odor? Slight Moderate Strong

Roots? Very Fine Fine Medium Coarse Very Coarse

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 5YR 5/8 USDA Texture:

Field Personnel

Logged By: JAS

Data Entry By: Same as above LSAK LDC

Sample Remarks

Internal Remarks: 11/1
0-0.5 1022
0.5-1.0 1029

Notes

Tim? Lacustrine? Sand/gravel bed?

Redox concretions

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: ED-01.24-501
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: BAK MWS
 Cored Date: 11/11/17
 Described By:
 Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
<u>0-0.5</u>					<u>11:26</u>
<u>0.5-1.0</u>					<u>11:36</u>
<u>1.0-1.5</u>					<u>11:44</u>

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
<u>0.5</u>	<u>0.5</u>	<u>100%</u>
<u>0.5</u>	<u>0.4</u>	<u>80%</u>
<u>0.5</u>	<u>0.39</u>	<u>78%</u>

Reviewed By _____ Date _____

Client: CEC / Arroyo
 Site Name: El Estero Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2017 11/3/17
 LDC

Location ID: ED-01.24-SLO1 Interval: 0 ft to 0.87 ft

Horizon: A Gap: 0.21 ft

Soil Color: 7.5YR 3/2 Color 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: Sandy loam

USCS Texture: SM

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other NONE

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 5YR 5/8 USDA Texture:

Notes: Redox concentrations

Tim? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above ISAK LDC

Internal Remarks

11/1 1126

Client: CEC / Arcenic
 Site Name: Elliott Ditch
 Project Name: 172-367
 Task #: 0008
 Log Date: 11/13/17 LDC

Location ID: ED-01.24-S101 Interval: 0.27 ft to 1.0 ft

Horizon: B Gap: 0 ft

Color
 Soil Color: 10YR 6/14 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: silty loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other NONE

Tim? Lacustrine? Sand/gravel bed?

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK - LDC

Internal Remarks

11/1 1144

Sediment Data Sheet

Project Name:
Project Number:
Field Location ID: ED-01.24-SLG3
Core Type:
Field Remarks:
Northing (ft):
Easting (ft):

Cored By: BAK
Cored Date: 11/1/2017
Described By:
Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5'					12:03

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%

Reviewed By _____ Date _____

Client: CFC/Arconic
 Site Name: Elliot Ditch
 Project Name: 172-3067
 Task #: 0002
 Log Date: 11/13/17

Location ID: ED-0134-SL03 Interval: 0 ft to 0.5 ft

Horizon: A Gap: 0 ft

Soil Color: 7.5YR 3/2 2nd Soil Color:
 Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: very fine sandy loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% 90%

Odor? Petrochemical Sulfur Other None

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Color: USDA Texture:

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK LOC

Internal Remarks

Sample Remarks:

Internal Remarks: 11/1 1203

Till? Lacustrine? Sand/gravel bed?

Sediment Data Sheet

replaces ED-01.39-

Project Name:
 Project Number:
 Field Location ID: ED-01.37 SD01
 Core Type: Upland
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: LDC BAK
 Cored Date: 11/2
 Described By:
 Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
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Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery	
0-0.5	0.38	76%	0911
0.5-0.9	0.4	100%	0915

Reviewed By _____ Date _____



Soil Log

Client: CEC / Arcenic Location ID: ED-01.37-SL01 Interval: 0 ft to 0.9 ft

Site Name: Ellistt Ditch
 Project Name: 172 367
 Task #: 0002
 Log Date: 11/3/17

Horizon: A Gap: 6.12 ft

Soil Color: 2.5YR 2.5/1 2nd Soil Color:

Color

Lab Data

Duplicate? FD
 Grab?
 Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 2

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: silty loam

USCS Texture: MH

Structure

Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other:

Grade: Weak
 Moderate
 Strong

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots? Few
 Common
 Many

Rocks? <15%
 15-35%
 35-60%
 60-90%
 ≥90%

Odor? Petrochemical
 Sulfur
 Other None

Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft

Color
 USDA Texture

Till? Lacustrine? Sand/gravel bed?

Notes

Field Personnel

Logged By: JAS

Data Entry By: Same as above
 JDC

Internal Remarks

11/2 0911

Sediment Data Sheet

replaces ED-01.39- (7-7)

Project Name:
 Project Number:
 Field Location ID:
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

ED-01.37-SLOZ
 terrace T-7

Cored By: LDC BAK
 Cored Date: 11/2
 Described By:
 Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery	
0-0.5	0.48	96	0925
0.5-1.0	0.48	96	0926
1.0-1.5	0.41	82	0928
1.5-2.0	0.32	64	0930

Reviewed By _____ Date _____

Client: CEL / Arcenic
 Site Name: Ellick Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2017

Location ID: E15-01.37-SL02 Interval: 0 ft to 0.27 ft

Horizon: 0A Gap: 0.02 ft

Soil Color: 10YR 3/2 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Sandy loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other: None

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK, LOC

Internal Remarks

Sample Remarks: replaces CD-01.39 T-7 - approx. mile marker

Internal Remarks: 11/2 0925

Notes

TH? Lacustrine? Sand/gravel bed?

Client: CEC / Arcenic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 0902
 Log Date: 11/2/2017

Location ID: ED-0137-SLD2 Interval: 0.27 ft to 0.97 ft

Horizon: 1A Gap: ft

Soil Color: 10YR 4/6 2nd Soil Color: 10YR 2/1

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: sandy clay loam

USCS Texture: ML

Structure

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input checked="" type="checkbox"/> Moderate
<input checked="" type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other	

Plasticity

Non-plastic

Slightly Plastic

Moderately Plastic

Very Plastic

Other Characteristics

Rods? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other N/A

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 5YR 5/8

USDA Texture: Redox concretions

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK

Internal Remarks

11/2 0926

Notes

Till? Lacustrine? Sand/gravel bed?



Soil Log

Client: Cec Arconic
 Site Name: Elliott Ditch
 Project Name: 177367
 Task #: 002
 Log Date: 11/3/17

Location ID: ED-01.37-5L07 Interval: 0.92 ft to 1.07 ft
 Horizon: 2A Gap: ft
0.08 + 0.07 = 0.15

Soil Color: 7.5YR 2.5/1 2nd Soil Color:

Color

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: sandy clay loam

USCS Texture: MH

Structure

Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other:

Grade: Weak
 Moderate
 Strong

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15%
 15-35%
 35-60%
 60-90%
 >90%

Odor? Petrochemical
 Sulfur
 Other N/A

Shells? Plant Fragments?

Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft

Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal

Wood % %

Color

USDA Texture

Notes

Till? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above LOC

Internal Remarks

11/2 0928



Client: CEC / Arconic
 Site Name: Elliott Ditch
 Project Name: 177 367
 Task #: 6002
 Log Date: 11/3/17

Location ID: EO-01.37-SL02 Interval: 1:07 ft to 2.0 ft

Horizon: 3A Gap: ft

Soil Color: 10YR 3/2 Color
 2nd Soil Color:

Lab Data

Duplicate?
 Grab?
 Composite?
 Matrix: Sediment
 Soil
 Air
 Water
 # of Containers: 1
 Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: loamy sand
 USCS Texture: SM

Structure

Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other:
 Grade: Weak
 Moderate
 Strong

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Roots? Few None
 Common
 Many
 Rocks? <15% None
 15-35%
 35-60%
 60-90%
 >90%
 Odor? Petrochemical
 Sulfur
 Other N/A
 Shells? Plant Fragments?
 Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft
 Color
 USDA Texture
 Notes: Tilt? Lacustrine? Sand/gravel bed?
 None

Field Personnel

Logged By: JAS
 Data Entry By: Same as above
 VAC

Internal Remarks

11/2 0930

Sediment Data Sheet

Project Name:
Project Number:
Field Location ID: E1-01.49-SL01
Core Type:
Field Remarks:
Northing (ft):
Easting (ft):

Cored By: BAK
Cored Date: 11/1/2017
Described By:
Described Date: 11/3

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
--------------	-------	----------	----------------------	----------------	-------------------------

0.5

13:46

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
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0.5

0.5

100%

Reviewed By _____ Date _____

Client: CEC/Arcenic
 Site Name: Elliot D. 165
 Project Name: 172-267
 Task #: 0082
 Log Date: 4/2/2017 11/3/17

Location ID: ED-0149-SL01 Interval: 0 ft to 0.5 ft

Horizon: A Gap: 0 ft

Soil Color: 10YR 4/3 2nd Soil Color:

Lab Data (LDC)

Duplicate? FD
 Grab? (DC)
 Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 2

Priority: (LDC)
 Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: sandy clay loam

USCS Texture: MH

Structure

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input checked="" type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input type="checkbox"/> Massive	
<input type="checkbox"/> Other	

Plasticity

<input type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input type="checkbox"/> Moderately Plastic
<input checked="" type="checkbox"/> Very Plastic

Other Characteristics

Roots? Few Common 0.06-0.5 Many 0-0.06

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other None

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Tim? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK LOE

Internal Remarks

Sample Remarks:

Internal Remarks: 11/1 1340

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID:
 Core Type:
 Field Remarks:
 Northing (ft):
 Easting (ft):

ED-01.49-SLO2

Cored By: BAK
 Cored Date: 11/1/2017
 Described By:
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					13:50
0.5-1.0					13:55

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.34	68%

Reviewed By _____ Date _____

Client: CEC / Accionik
 Site Name: Fill of Ditch
 Project Name: 172-367
 Task #: 0002
 Log Date: 11/2/2017 11/3/17
WPC

Location ID: ED-01.49-SLO2 Interval: 0 ft to 1.0 ft

Horizon: A Gap: 0.16 ft
(0.5-1.0)

Soil Color: 7.5YR 2.5/1 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: sandy loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other None

Roots? Very Fine Fine Medium Coarse Very Coarse

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 10YR 6/4 USDA Texture:

Notes: Sandy Silt

TM? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK LOC

Sample Remarks

Internal Remarks: 11/1 0.0-0.5 1350 0.5-1.0 1355

Sample Remarks: sublayer @ ~0.8'

Few Redox concretions - color: 5YR4

Sediment Data Sheet

Project Name:
 Project Number:
 Field Location ID: ED - 01.49 SLO4
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: BAK
 Cored Date: 11/1/17
 Described By:
 Described Date:

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
0-0.5					14:10
0.5-1.0					14:17
1.0-1.5					14:25
1.5-2.0					14:33

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5	0.5	100%
0.5	0.5	100%
0.5	0.37	72%
0.5	0.42	84%

Reviewed By _____ Date _____

Client: CEC / Arcenic
 Site Name: Elliot Pkwy
 Project Name: 172-267
 Task #: 0002
 Log Date: 4/2/2017 11:31:17

Location ID: ED-01.49-S104 Interval: 0 ft to 1.81 ft

Horizon: A1 Gap: 0.23 ft

Soil Color: 10YR 2/2 Color:
 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 13

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: silty loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rods? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other NONE

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture: NONE

Notes: T#? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above BAK LOC JAS

Sample Remarks

1111	
0-0.5	1410
0.5-1.0	1417
1.0-1.81	1427

Internal Remarks

Client: CEL/Arctic
 Site Name: Elliot Ditch
 Project Name: 172-367
 Task #: 002
 Log Date: 11/2/2017 113117

Location ID: ED-0149-804 Interval: 1.81 ft to 2.0 ft

Horizon: A2 Gap: ft

Soil Color: 10YR 4/3 Color
 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: sandy loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Slight Moderate Strong Sulfur Other NONE

Roots? Very Fine Fine Medium Coarse Very Coarse

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color USDA Texture

Notes:

TH? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: JAS

Data Entry By: Same as above JAS LOC JAG

Sample Remarks

Internal Remarks

11/1 1-133

Soil
Sediment Data Sheet

(6)

Project Name: ELLIOTT DITCH
 Project Number: 172-367-0006
 Field Location ID: ED-00.00-SL01
 Core Type:
 Field Remarks:
 Northing (ft):
 Easting (ft):

Cored By: MWB / DMM
 Cored Date: 02/07/18 0925
 Described By: DMM
 Described Date: 02/09/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery

Hours
 0-4 41.25
 3.44 86%

Reviewed By _____ Date _____

Page _____ of _____

Soil Log
Version 1.2, 1/20/16

Location ID: ED-00.00-SL01 Interval: 0 ft to 0.9 ft

Client: CEC/ABONIC Horizon: 1A Gap: 0 ft

Site Name: ELLIOTT DITCH Soil Color: 10YR 5/3 2nd Soil Color: 10YR 2/1

Project Name: 172-307 Texture: SILTY LOAM Structure: MH

Task #: 0006 USDA Texture: SILTY LOAM USCS Texture: MH

Log Date: 02/09/13 Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: DM/M/MWB Date Entry By: Same as above

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics: Roots? Few Common Many Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood % 0 % Plant Fragments? Shells? Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft Color: _____ USDA Texture: _____

Notes: Till? Lacustrine? Sand/gravel bed? Sample Remarks: _____ Internal Remarks: 02/09/13
0925

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page _____ of _____

Soil Log Version 1.2, 1/20/16

Location ID: ED-00.00-S L01 Interval: 0-91 in to 2-21 in

Client: CEC/ABLONIC Project Name: ELLIOTT DITCH Task #: 0006 Log Date: 12/09/18

Horizon: 2A Gap: — n

Soil Color: 10YR 3/1 2nd Soil Color: 10YR 5/6

Texture: SILTY LOAM Structure: MH

USDA Texture: SILTY LOAM USCS Texture: MH

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 2 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic


Field Personnel: Logged By: DMM / MWB Data Entry By: Same as above

Other Characteristics: Wood? Wood Brick Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood % 0 % Shells? Plant Fragments? Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft Color: 5Y 2.5/1 USDA Texture: LOAM

Notes: T/TP Lacustrine? Sand/gravel bed?

Sample Remarks: _____ Internal Remarks: _____

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



TETRA TECH

Soil Log

Version 1.2, 1/20/16

Page _____ of _____

Client: CEC/ARLONIC

Site Name: ELLIOTT DITCH

Project Name: 172-367

Task #: 0006

Log Date: 02/09/17

Location ID: ED-00.00-SLO1

Interval: 2.21 R to 3.12 R

Horizon: BuB 3A

Gap: ft

Lab Data

Duplicate?

Grab?

Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: SANDY LOAM

USCS Texture: ML

Structure

Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other: _____

Grade: Weak
 Moderate
 Strong

Color

Soil Color: 10YR 4/3

2nd Soil Color: 10YR 3/1

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other N O WZ

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: _____

USDA Texture: _____

Field Personnel

Logged By: DM / MWB

Data Entry By: Same as above

Notes

Tim? Lacustrine? Sand/gravel bed?

Internal Remarks

02/07/13
0925

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Sediment Log
Version 1.2, 1/2016

Page _____ of _____

Location ID: ED-00-00-5L01 Interval: 3.12 ft to 3.44 ft

Client: C. ELLIOTT DITCH Layer: B Gap: _____ ft

Site Name: ELLIOTT DITCH Sediment Color: _____
 2nd Sediment Color: _____

Project Name: 172-367 Sediment Color: 10YR 4/6

Task #: 0006 Texture: SANDY CLAY

Log Date: 02/09/13 USCS Texture: CH

Lab Data

Duplicate? Grab? Composter?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: DMW / MWB

Data Entry By: _____

Internal Remarks

02/07/13
0925

Texture

USDA Texture: _____
USCS Texture: CH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____

Grade: Weak Moderate Strong

Other Characteristics

Roots? Few None Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other NONE

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: _____
USDA Texture: _____

Notes

Till? Lacustrine? Sand/gravel bed?

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil
Sediment Data Sheet

(5)

Project Name: ELLIOTT DITCH
 Project Number: 172-367.0006
 Field Location ID: ED-00.02-SL01
 Core Type:
 Field Remarks:
 Northing (ft):
 Easting (ft):

Cored By: MWB/DMM
 Cored Date: 02/07/13 0938
 Described By: DMM
 Described Date: 02/09/13

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-4'	4'	100%

Reviewed By _____ Date _____

Page 1 of 5

Soil Log Version 1.2, 1/20/16

Location ID: ED-00-02-SLO1 Interval: 0 ft to 0.63 ft

Client: CEC/ARLONIC Horizon: 1A Gap: 0 ft

Site Name: ELLIOTT DITCH Soil Color: 10YR 2/1 2nd Soil Color: -

Project Name: 172-367 Texture: SILTY LOAM

Task #: 0006 USCS Texture: MH

Log Date: 02/09/13

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: DMM / MWB

Data Entry By: Same as above

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Texture

USDA Texture: SILTY LOAM

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massve Other: _____

Grade: Weak Moderate Strong

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: _____

Notes

TIH? Lacustrine? Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Sediment Log Version 1.2, 1/20/18 Page 2 of 5

Location ID: ED-00-02-SL01 Interval: 0.63 ft to 1.76 ft

Client: CEC/ARCNIC Layer: 2A Gap: 0 ft

Site Name: ELLIOTT DITCH Sediment Color: 512 4/6 2nd Sediment Color: —

Project Name: 172-367 Texture: LOAMY SAND Structure: Weak

Task #: 0006 USCS Texture: SM USDA Texture: —

Log Date: 02/09/18

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: DMW/MWB

Data Entry By: Same as above

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% 90-100%

Odor? Petrochemical Sulfur Other py/ME

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color — USDA Texture —

Notes

Till? Lacustrine? Sand/gravel bed?

Sample Remarks: 02/09/18

Internal Remarks: 0938

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 3 of 5

Sediment Log Version 1.2, 1/20/16

Location ID: ED-00.02-5L01 Interval: 1.76 ft to 2.18 ft

Client: C EC / ARLOM1C Layer: 3A Gap: ft

Site Name: ELL16TT DITCH Sediment Color: 0

Project Name: 172-367 2nd Sediment Color: 0

Task #: 0006 Color:

Log Date: 02/01/18

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment
 Soil
 Air Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: SILTY CLAY

USCS Texture: CL

Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other:

Structure

Grade: Weak
 Moderate
 Strong

Other Characteristics

Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers?

Color:

USDA Texture:

Texture

USDA Texture: SILTY CLAY

USCS Texture: CL

Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other:

Rocks? Few
 Common
 Many

Rocks? <15%
 15-35%
 35-60%
 60-90%
 ≥90%

Odor? Petrochemical
 Sulfur
 Other MOSE

Tim? Lacustrine? Sand/gravel bed?

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Field Personnel

Logged By: DMW / MWB

Data Entry By: Same as above

Sample Remarks:

Internal Remarks: 0938
02/01/18

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page A of 5

Soil Log Version 1.2, 1/20/16

Client: TETRA TECH Location ID: ED-00-02-601 Interval: 2.18 ft to 3.43

Site Name: CEC/KALWANIC Horizon: 4A Gap: 0 ft

Project Name: ELLIOTT DITCH Soil Color: 10YR 3/4 2nd Soil Color: -

Task #: 0006 Texture: LOAMY SAND Structure: -

Log Date: 02/09/18 USCS Texture: SM Grade: Weak Moderate Strong

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: DAW Data Entry By: Same as above

Texture

USDA Texture: LOAMY SAND

USCS Texture: SM

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% 90%

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? ≤0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: _____ USDA Texture: _____

Notes

TIIP? Lacustrine? Sand/gravel bed?

Internal Remarks: 02/07/18
0988

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 5 of 5

Soil Log Version 1.2, 1/2016

Client: CEC/ARCONIC Location ID: ED-00-02-SL01 Interval: 3.43 ft to 4 ft

Site Name: ELLIOTT DITCH Horizon: B Gap: 0 ft

Project Name: 172-367 Soil Color: 10YR 2/1 2nd Soil Color:

Task #: 0006 Color:

Log Date: 02/09/13

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: LOAMY CLAY

USCS Texture: CL

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Other Characteristics

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color:

USDA Texture:

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other

Notes

Till? Lacustrine? Sand/gravel bed?

Plasticity

Non-Plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: JMM / MWB

Data Entry By: Same as above

Sample Remarks

Internal Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil
Sediment Data Sheet

6

Project Name: ELLIOTT DITCH
Project Number: 172-367-0006
Field Location ID: ED-00.05 - SLO1
Core Type:
Field Remarks:
Northing (ft):
Easting (ft):

Cored By: MWB/DMN
Cored Date: 02/07/13 10.03
Described By: DMN
Described Date: 02/09/13

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0 - 4'	4'	100%

Reviewed By _____ Date _____

Page 1 of 4

Soil Log Version 1.2, 1/20/16

Location ID: ED-00.05-SL01 Interval: 0 ft to 0.67 ft

Client: CELTRONIC Site Name: ELLIOTT DITCH Project Name: 172-367 Task #: 0006 Log Date: 02/12/18

Horizon: 1A Gap: 0 ft

Soil Color: 5YR 2.5/1 2nd Soil Color: -

Texture: SILTY LOAM Structure: MIT

USDA Texture: SILTY LOAM USCS Texture: MIT

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel: Logged By: DMW / MWB Data Entry By: Same as above

Other Characteristics: Roots? Few Common Many Rocks? <15% 15-35% 35-60% 60-90% ≥90% Petrochemical Slight Moderate Strong Sulfur Other Odor? Wood? Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood % 0 % Shells? Plant Fragments? Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft Color - USDA Texture -

Notes: Sand/gravel bed? Lactinme? Tilt? 02/07/18 PO3

Sample Remarks: * slight odor Internal Remarks: 02/07/18 PO3

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 2 of 4

Sediment Log
Version 1.2, 1/20/16

Location ID: ED-00.05-SLO1 Interval: 0.67 ft to 1.4 ft

Client: CEC/KAWONIC Layer: 2A Gap: ft

Site Name: ELLIOTT OITC4 Sediment Color: 10YR 4/4 2nd Sediment Color:

Project Name: 172-367 Texture: LOAM Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Task #: 0006 USCS Texture: MH Grade: Weak Moderate Strong

Log Date: 02/12/18 # of Containers: 2

Lab Data
Duplicate? Grab? Composite?
Matrix: Sediment Soil Air Water
Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity
 Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel
Logged By: DMM / MWB
Data Entry By: Same as above

Other Characteristics
Rocks? Few Common Many
Rocks? <15% 15-35% 35-60% 60-90% 90%
Odor? Petrochemical Slight Moderate Strong Sulfur Other
Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
Wood % 0 %
Shells? Plant Fragments?
Sublayers? -0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
Color: 10YR 4/3 USDA Texture: LOAMY SAND

Notes
Tilt? Lacustrine? Sand/gravel bed?

Sample Remarks
Internal Remarks: 02/07/18
1003
* Dark staining
* slight odor

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 3 of 4

Sediment Log Version 1.2, 1/20/16

Location ID: ED-00-05-SL01 Interval: 1.4 ft to 2.3

Client: CeC/ARONIC Project Name: ELLIOTT DITCH Task #: 0006 Log Date: 02/12/18

Site Name: ELLIOTT DITCH

Layer: 3A Gap: 0 ft

Sediment Color: 5Y 3/1 2nd Sediment Color: -

Texture: SILTY LOAM Structure: Weak Weak Moderate Strong

USDA Texture: MH USCS Texture: MH

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics: Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood % 0 % Shells? Plant Fragments? Sublayers? <0.05 ft Color 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Rocks? Few Common Many Other Characteristics: Very Fine Fine Medium Coarse Very Coarse Fine Gravel Medium Gravel Coarse Gravel Cobbles Roots? <15% 15-35% 35-60% 60-90% 90% Odor? Petrochemical Sulfur Other Tilt? Lacustrine? Sand/gravel bed?

Field Personnel: Logged By: DMW / MWP Data Entry By: Same as above

Sample Remarks: * slight odor Internal Remarks: 02/07/18
1003

Notes: Sand/gravel bed? Lacustrine?

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 4 of 4

Sediment Log Version 1.2, 1/20/16

Location ID: ED-00-05-SL01 Interval: 2-3 ft to 4.0 ft

Client: TETRA TECH CEC/ARUNIC

Site Name: ELLIOTT DITCH

Project Name: 172-369

Task #: 0006

Log Date: 02/12/18

Layer: 4A Gap: 0 ft

Sediment Color: 10YR 4/4 2nd Sediment Color: -

Color

Texture: LOAMY SAND Structure: Weak

USDA Texture: SM USCS Texture: SM

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: DMM / MWB

Date Entry By: Same as above

Sample Remarks: 02/07/18

Internal Remarks: 1003

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% 90%

Odor? Petrochemical Slight Moderate Strong Other NOISE

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 10YR 5/6

USDA Texture: LOAMY SANDY

Notes: Tuff? Lacustrine? Sand/gravel bed?

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Sediment Data Sheet

Project Name: ELLIOTT DITCH
 Project Number: 172-367.0006
 Field Location ID: ED-00.03-SL03
 Core Type:
 Field Remarks:
 Northing (ft):
 Easting (ft):

Cored By: MWB / DMM
 Cored Date: 02/07/08 10 10
 Described By: DMM
 Described Date: 02/09/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
3'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-4'	3.5'	89%
4-8'	4'	100%

Reviewed By _____ Date _____

Page 1 of 6

Sediment Log
Version 1.2 1/20/16

Location ID: ED-00.08-5L03 Interval: 0 ft to 1.25 ft

Client: CEC ARCONIC Layer: 1A Gap: 0-25 ft

Site Name: ELLIOTT DITCH Sediment Color: 10YR 5/6 Color: —

Project Name: 172-369 2nd Sediment Color: —

Task #: 0006 Texture: SILTY LOAM Structure: Weak

Log Date: 02/12/18 USCS Texture: MH

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: MWB/DWM

Data Entry By: Same as above

Texture

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

USDA Texture: SILTY LOAM

USCS Texture: MH

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Odor? Petrochemical Sulfur Other

Other Characteristics: Very Fine Fine Medium Coarse Very Coarse

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: — USDA Texture: —

Notes

TIP? Lacustrine? Sand/gravel bed?

Sample Remarks: 02/07/18

Internal Remarks: 1010

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 2 of 6

Sediment Log Version 1.2 1/20/16

Location ID: ED-00-08-SLOS Interval: 1.25 ft to 2.25 ft

Client: C E C / KR KONIC Layer: 2A n

Site Name: ELLIOTT DITCH Sediment Color: 10YR 3/1

Project Name: R2-367 2nd Sediment Color: -

Task #: 0006 Color

Log Date: 02/12/13

Lab Data

Duplicate? Grab? Composite?

Main: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: SILTY LOAM

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Field Personnel

Logged By: DMM MWB

Data Entry By: Same as above

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% ≥90%

Other Characteristics

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color -

USDA Texture -

Notes

Till? Lacustrine? Sand/gravel bed?

Sample Remarks: 50% gravel

Internal Remarks: 02/07/13
1010

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 3 of 6

Sediment Log Version 1.2, 1/20/16

Location ID: ED-00-08-SL03 Interval: 325 ft to 275 ft

Client: CEC/ARLONIC Layer: 1B ft

Site Name: ELLIOTT DITCH Sediment Color: 2-5Y 5/3

Project Name: 172-367 2nd Sediment Color:

Task #: 0006 Gap: ft

Log Date: 02/02/18 Color:

Lab Data

Duplicate? Grab? Composite?

Meibx: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: SANDY CLAY

USCS Texture: MH

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Structure:

Grade: Weak Moderate Strong

Field Personnel

Logged By: DMW / MWB

Data Entry By: Same as above

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few None Common Many

Rocks? <15% 15-35% 35-60% 60-90% 90-100%

Odor? Petrochemical Sulfur Other

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color:

USDA Texture:

Notes

TIP? Lacustrine? Sand/gravel bed?

Sample Remarks

*Stained

Internal Remarks

02/07/18
(010)

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 4 of 6

Sediment Log
Version 1.2, 1/20/16

Client: TETRA TECH
 Site Name: CEC/ARLONIC
 Project Name: ELLIOTT DITCH
 Task #: 172-367
 Log Date: 02/12/18

Location ID: ED-00.08-SL03 Interval: 2.75 ft to 5.6 ft
 Layer: 2B Gap: 0 ft
 Sediment Color: 6YR 4/1 2nd Sediment Color: 10Y 5/4

Lab Data
 Duplicates? Grab? Composites?
 Matrix: Sediment Soil Air Water
 # of Containers: 3 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture
 USDA Texture: CLAY
 USCS Texture: CL

Structure
 Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____
 Grade: Weak Moderate Strong

Other Characteristics
 Roots? Few None Common Many
 Rocks? <15% 15-35% 35-60% 60-90% >90%
 Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood % 0 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
 Color: — USDA Texture: _____

Plasticity
 Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel
 Logged By: DMN / MWB
 Data Entry By: Same as above

Notes
 Tilt? Lacustrine? Sand/gravel bed?

Sample Remarks
*Staine d
* Strong petroche
micel odor

Internal Remarks
02/07/18
1010

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

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Sediment Log
Version 1.2, 1/20/18

Client: CFC/ARLONIC
 Site Name: ELLIOTT DITCH
 Project Name: 172-367
 Task #: 0006
 Log Date: 02/12/18

Location ID: ED-00.03-SL03
 Interval: 56 ft to 7 ft

Layer: 3B
 Gap: 0.4 ft

Sediment Color: 10YR 4/4
 2nd Sediment Color: 10YR 3/4

Lab Data
 Duplicate?
 Grab?
 Composite?
 Matrix: Sediment
 Soil
 Air
 Water
 # of Containers: 2
 Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture
 USDA Texture: SILTY CLAY
 USCS Texture: CL

Structure
 Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other:
 Grade: Weak
 Moderate
 Strong

Other Characteristics
 Roots? Few Many
 Common
 Many
 Rocks? <15%
 15-35%
 35-60%
 60-90%
 >90%
 Odor? Petrochemical
 Sulfur
 Other
 Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal
 Wood % 0 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft
 Color: —
 USDA Texture: —

Plasticity
 Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Field Personnel
 Logged By: DMW / mwb
 Data Entry By: Same as above

Notes
 Tilt? Lacustrine? Sand/gravel bed?
 Sample Remarks: * stained
 Internal Remarks: 02/07/19
1010

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 6 of 6

Sediment Log
Version 1.2, 1/20/16

Location ID: ED-00.08-SLO3 Interval: 7 ft to 8 ft

Client: CEC/ARLONIC Layer: 4B Gap: 0 ft

Site Name: ELLIOTT DITCH Sediment Color: 2-5Y 5/3 Color

Project Name: 172-367 2nd Sediment Color:

Task #: 0006 Texture: SANDY CLAY Structure:

Log Date: 02/12/13 USCS Texture: MH Grade: Weak

Lab Data Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel Logged By: DMW/MWB Defa Entry By: Same as above Other

USDA Texture: SANDY CLAY **USCS Texture:** MH

Texture: SANDY CLAY **Structure:**

Other Characteristics:

Rocks? Few Common Many <15% 15-35% 35-60% 60-90% 90%

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Shells? Plant Fragments? 0 % Wood %

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes: 02/07/19 1010

Till? Lacustrine? Sand/gravel bed?

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil
Sediment Data Sheet

9

Project Name: ELLIOTT DITCH
 Project Number: 172-367
 Field Location ID: ED-00-08-SLOS
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: MWB/DMM
 Cored Date: 02/07/18 1026 - 1030
 Described By: DMM
 Described Date: 02/12/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
8'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0 - 4'	4'	100%
4 - 8'	4'	100%

Reviewed By _____ Date _____

Page 1 of 5

Soil Log
Version 1.2, 1/20/16

Location ID: ED-00.08-SLOS Interval: 0 ft to 0.67 ft

Client: CEC/ARLONIC Project Name: ELLIOTT DITCH Task #: 0006 Log Date: 02/12/18

Horizon: 1A Gap: 0 ft

Soil Color: 2.5Y 2.5/1A 2nd Soil Color: -

Texture: SILTY LOAM Structure: MH

USDA Texture: SILTY LOAM USCS Texture: MH

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment, Soil, Air, Water # of Containers: 1 Priority: Urgent (1), Standard (2), As Able (3), As Needed (4)

Plasticity: Non-plastic, Slightly Plastic, Moderately Plastic, Very Plastic

Field Personnel: Logged By: MWB/AMM Data Entry By: Same as above

Other Characteristics: Roots? Few, Common, Many; Rocks? <15%, 15-35%, 35-60%, 60-90%, >90%; Wood? Wood, Black Wood, Burned Wood, Sawdust, Wood Chips, Wood Pulp, Charcoal; Wood %: 0 %; Shells? Plant Fragments? Sublayers? <0.05 ft, 0.05-0.1 ft, 0.1-0.2 ft, 0.2-0.5 ft, >0.5 ft; Color: -; USDA Texture: -

Notes: * odor 02/07/18 1026

Till? Lacustrine? Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log
Version 1.2, 1/20/16

Client: CEC/MRONIC
 Site Name: ELLIOTT DITCH
 Project Name: 192-367
 Task #: 0006
 Log Date: 02/12/13

Location ID: ED-00-08-SLOS
 Interval: 0.67 ft to 1.25 ft
 Horizon: 2A
 Gap: 0

Lab Data
 Duplicate?
 Grab?
 Composite?
 Matrix: Sediment
 Soil
 Air
 Water
 # of Containers: 1
 Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Field Personnel
 Logged By: MWB/DMM
 Data Entry By: Same as above

Soil Color
 Soil Color: 2.5Y 3/2
 2nd Soil Color: —

Texture
 USDA Texture: LOAMY SILT
 USCS Texture: OL

Structure
 Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other:
 Grade: Weak
 Moderate
 Strong

Other Characteristics
 Roots? Few
 Common
 Many
 Rocks? <15%
 15-35%
 35-60%
 60-90%
 >90%
 Odor? Petrochemical
 Sulfur
 Other
 Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal
 Wood %: 0 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft
 Color: —
 USDA Texture:

Notes
 Till? Lacustrine? Sand/gravel bed?
 Sample Remarks: *odor
 Internal Remarks: 02/07/13
6026

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 3 of 5

Version 1.2, 1/20/16
Soil Log

Location ID: ED-00-08-SLOS Interval: 1-25 ft to 2.1 ft

Client: CEC/ARCONIC Horizon: 3A Gap: 0 ft

Site Name: ELLIOTT DITCH Project Name: 172-367 Task #: 0006 Log Date: 02/02/18

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: LOAMY SAND

USCS Texture: SM

Color

Soil Color: 2.5Y 4/3 2nd Soil Color: -

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Field Personnel

Logged By: DMM/MWB

Data Entry By: Same as above

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: - USDA Texture:

Notes

Till? Lacustrine? Sand/gravel bed?

Sample Remarks:

Internal Remarks: 2/07/18
1026

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 4 of 6

Soil Log Version 1.2, 1/2016

Location ID: ED-00.08-SLOS Interval: 2-1 ft to 3 ft

Client: CEC/ARCONIC Horizon: 1B Gap: 0 ft

Site Name: ELLIOTT DITCH Soil Color: 10YR 5/3 2nd Soil Color: 5YR 7/8

Project Name: 172-367 Texture: SILTY CLAY Structure: CL

Task #: 0006 USDA Texture: CL USCS Texture: CL

Log Date: 02/12/18 Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: Diana / MWB Date Entry By: Same as above

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics: Roots? Few None Common Many Rocks? <15% 15-35% 35-60% 60-90% >90% Odor? Petrochemical Sulfur Other Shells? Plant Fragments? Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood % 0 %

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft Color: — USDA Texture: —

Notes: Till? Lacustrine? Sand/gravel bed?

Sample Remarks: 02/07/18
1026

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Sediment Log
Version 1.2, 1/23/16

Location ID: ED-00-08-SLOS Interval: 3 ft to 3.8 ft

Client: ETRA TECH CEC/ARLONIC
 Site Name: ELLIOTT DITCH
 Project Name: 192-369
 Task #: 0000
 Log Date: 02/12/18

Layer: 2B Gap: 0 ft

Sediment Color: 10YR 4/1 2nd Sediment Color: 10YR 5/6

Texture
 USDA Texture: CLAY
 USCS Texture: CL

Structure
 Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____
 Grade: Weak Moderate Strong

Lab Data
 Duplicate? Grab? Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 5
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity
 Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel
 Logged By: DMM / MMB
 Data Entry By: Same as above

Other Characteristics
 Rocks? Few Common Many None
 Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood %: 0 %
 Sheels? Plant Fragments?
 Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
 Color: 10YR 4/1
 USDA Texture: SANDY CLAY

Notes
 Tilt? Lacustrine? Sand/gravel bed?

Sample Remarks
*Strong odor

Internal Remarks
02/07/18

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

S.O.L
Sediment Data Sheet

(4)

Project Name: ELLIOTT DITCH
 Project Number: 172-367
 Field Location ID: E0-00.13-SLOA
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: MWS/DMM
 Cored Date: 02/07/18 1033
 Described By: DMM
 Described Date: 02/12/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-4'	3.08	77%

Reviewed By _____ Date _____

Page 1 of 3

Sediment Log

Version 1.2, 1/20/16

Client: CEC/ALCONIC
 Site Name: ELLIOTT DITCH
 Project Name: 172-367
 Task #: 0006
 Log Date: 02/17/18

Location ID: ED-00.13-SL01 Interval: 0 ft to 0.07 ft
 Layer: 1A Gap: 0 ft
 Sediment Color: 2.5Y 3/1 2nd Sediment Color:
 Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: SILTY LOAM

USCS Texture: MH

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Other Characteristics

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: DMM/MWP

Data Entry By: Same as above

Notes

Till? Lacustrine? Sand/gravel bed?

Sample Remarks

Internal Remarks

02/07/18
1033

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 2 of 3

Sediment Log

Version 1.2, 1/20/16

Location ID: ED-00.13-SL01 Interval: 0.69 ft to 2.75 ft

Client: CEC/ARCONIC Layer: 2A Gap: - ft

Site Name: ELLCOTT DITCH Sediment Color: 10YR 4/3 2nd Sediment Color: -

Project Name: 172-367 Color: -

Task #: 6006

Log Date: 02/12/19

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: SANDY LOAM

USCS Texture: SM

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% 90%

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Odor? Petrochemical Slight Moderate Strong

Other: Charcoal

Notes: Tim? Lacustrine? Sand/gravel bed?

Field Personnel

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Logged By: DMM / MWB

Data Entry By: Same as above

Sample Remarks: * Gravel

Internal Remarks: 02/07/19

* Stained

1033

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 3 of 3

Sediment Log

Version 1.2, 1/20/16

Client: CEC/ARCONIC Location ID: ED-00-13-SL01 Interval: 2.75 ft to 3.08 ft

Site Name: ELLIOTT DITCH Layer: B Gap: 0.92 ft

Project Name: 172-367 Sediment Color: gray 2nd Sediment Color: gray

Task #: 0006 Sediment Color: gray

Log Date: 02/12/13

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 4

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: SILTY CLAY

USCS Texture: CL

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Structure:

Grade: Weak Moderate Strong

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% 90%

Odor? Petrochemical Sulfur Other

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: DWAM/MLWB

Data Entry By: Same as above

Notes

TIN? Lacustrine? Sand/gravel bed?

Sample Remarks

* Stained

* Strong odor

Internal Remarks

02/07/13

1033

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil
Sediment Data Sheet

(5)

Project Name: ELLIOTT DITCH
 Project Number: 172-307-0006
 Field Location ID: ED-00.17-SLO1
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: MWB/DMM
 Cored Date: 02/07/13
 Described By: Pmm/MWB 1041
 Described Date: 02/12/13

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-4'	4	100%

Reviewed By _____ Date _____

Page 1 of 2

Sediment Log
Version 1.2, 1/20/16

Location ID: ED - 00.17 - SLO1 Interval: 0 ft to 0.75 ft

Client: CEC/APLONIC Layer: 1A Gap: 0 ft

Site Name: ELLIOTT DITCH Sediment Color: 2.5Y 2.5/1 2nd Sediment Color: —

Project Name: 172-367 Texture: SILTY LOAM Structure: MH

Task #: 0006 USCS Texture: MH

Log Date: 02/12/13

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: DMM/MWB

Data Entry By: Same as above

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other none

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Till? Lacustrine? Sand/gravel bed?

Notes

Sample Remarks: 02/12/13

Internal Remarks: 1041

USDA Texture: SILTY LOAM

Grade: Weak Moderate Strong

Wood %: 0 %

USDA Texture: —

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 2 of 2

Sediment Log
Version 1.2, 1/20/16

Location ID: ED - 00.17-SLO1 Interval: 0.75 ft to 4 ft

Client: CE/ARCONIC Layer: 2A Gap: 0 ft

Site Name: ELLIOTT DITCH Sediment Color: 1042 5/3

Project Name: 172-367 2nd Sediment Color: 2.54 3/1

Task #: 0006 Sediment Color: 2A

Log Date: 02/12/18

Lab Data

Duplicate? Grab? Composite?

Mix: Sediment Soil Air Water

of Containers: 3

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: SANDY LOAM

USCS Texture: SM

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____

Grade: Weak Moderate Strong

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other: None

Plasticity: Non-Plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: 2.54 5/2

USDA Texture: GRAVEL

Field Personnel

Logged By: PMM / MWB

Data Entry By: Same as above

Sample Remarks

Internal Remarks: 02/12/18
1041

Notes

Tilt? Lacustrine? Sand/gravel bed?

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

SOIL
Sediment Data Sheet

②

Project Name: ELLIOTT DITCH
 Project Number: 172-367-0006
 Field Location ID: ED-00.55-SLO4
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: DMH/MWB
 Cored Date: 02/07/13 1130-1140
 Described By: DMH/MWB
 Described Date: 02/13/13

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
1'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-0.5'	0.42	83%
0.5'-1'	0.38	75%

Reviewed By _____ Date _____

Page 1 of 1

Sediment Log

Version 1.2, 1/20/16

Client: CEC/ARWNIC Location ID: EP-00-65-SLO1 Interval: 0 ft to 1 ft

Site Name: ELLIOTT DITCH Layer: A Gap: 0.2 ft

Project Name: 172-367 Sediment Color: 5Y 4/2 2nd Sediment Color: 2.5Y 4/5

Task #: 6006 Sediment Color: 5Y 4/2 2nd Sediment Color: 2.5Y 4/5

Log Date: 02/13/18

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: SILTY LOAM

USCS Texture: MH

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____

Structure: _____

Grade: Weak Moderate Strong

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other DONE

Shells? Plant Fragments?

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: _____

USDA Texture: _____

Field Personnel

Logged By: DMM / MWB

Date Entry By: Same as above

Notes

Tilt? Lacustrine? Sand/gravel bed?

Sample Remarks: * 0.5 - 1, stained

Internal Remarks: 02/67/18
1130 - 1140

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

SOIL

Sediment Data Sheet

①

Project Name: ELLIOTT DITCH
 Project Number: 172-367-0006
 Field Location ID: ED-00.55-5402
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: MWB/DMM
 Cored Date: 02/07/13 1308 - 13.16
 Described By: DMM
 Described Date: 02/13/13

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0 - 0.5'	0.42	83%
0.5 - 1'	0.46	92%

Reviewed By _____ Date _____

Page 1 of 1

Sediment Log

Version 1.2, 1/2016

Client: CEC/ARLONIC Location ID: ED-0055-SL02 Interval: 0 ft to ft

Site Name: ELLIOTT DITCH Layer: A Gap: 0.12 ft

Project Name: 172-367 Sediment Color: 2.5Y 3/1 2nd Sediment Color: 2.5Y 2.5/1

Task #: 0006 Sediment Color: 2.5Y 3/1 2nd Sediment Color: 2.5Y 2.5/1

Log Date: 02/13/18

Lab Date
 Duplicate? Grab? Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel
 Logged By: DAM/MWB
 Date Entry By: Same as above

Texture
 USDA Texture: SILTY LOAM
 USCS Texture: MH

Structure
 Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:
 Grade: Weak Moderate Strong

Other Characteristics
 Roots? Few Common Many
 Rocks? <15% 15-35% 35-60% 60-90% ≥90%
 Odor? Petrochemical Slight Moderate Strong Sulfur Other: NONE
 Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood %: 0 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
 Color:
 USDA Texture:

Notes
 Till? Lacustrine? Sand/gravel bed?

Sample Remarks
* Dark / Stained

Internal Remarks
02/02/18
1308-1316

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil

Sediment Data Sheet

②

Project Name: ELLIOTT DITCH
 Project Number: 172-367.0006
 Field Location ID: ED-01-24-SLO4
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting (ft):

Cored By: MWB/DMM
 Cored Date: 02/07/13 1320 - 1330
 Described By: DMM/MWB
 Described Date: 02/13/13

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
1.5'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0 - 0.5'	0.42'	83%
0.5 - 1'	0.42'	83%
1' - 1.5'	0.46	92%

Reviewed By _____ Date _____

Page 1 of 2

Soil Log Version 1.2, 1/20/16

Client: CE/ARCONIC Location ID: ED-01-24-SLO4 Interval: 0 ft to 1 ft

Site Name: ELLIOTT DITCH Horizon: 1A Gap: 0-16 ft

Project Name: 172-367 Soil Color: 2.5Y 3/2 2nd Soil Color:

Task #: 0006 USDA Texture: SILTY LOAM Structure:

Log Date: 02/13/17 USCS Texture: MH Grade: Weak Moderate Strong

Lab Data

Duplicates? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 4 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: DAM MWB

Date Entry By: Same as above

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other PODE

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Texture

USDA Texture: SILTY LOAM

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Notes

TIM? Lacustrine? Sand/gravel bed?

Internal Remarks: 02/07/18
1300-1330

Sample Remarks: A

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 2 of 2

Soil Log
Version 1.2, 1/20/16

Client: CEC/ARCONIC Location ID: ED-01-24-SL04 Interval: 1 ft to 1.5 ft

Site Name: ELLIOTT DITCH Horizon: 2A Gap: 0.04 ft

Project Name: 172-367 Soil Color: 2.5Y 4/3 2nd Soil Color:

Task #: 0006 Log Date: 02/13/18

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: DMM/MW Date Entry By: Same as above

Texture

USDA Texture: SANDY EDAM USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% 90-100%

Odor? Petrochemical Sulfur Other NOTE

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 % Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes

Till? Lacustrine? Sand/gravel bed?

Sample Remarks: * W/GRAVEL Internal Remarks: 02/07/18
1520-1330

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Sci
Sediment Data Sheet

③

Project Name: ELLIOTT DITCH
 Project Number: 172-367-0006
 Field Location ID: ED-01.24-SLO5
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: DMM/MWB
 Cored Date: 02/07/12
 Described By: ~~DMM~~ DMM/MWB 1305-1356
 Described Date: 02/13/12

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
1.5'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0 - 0.5	0.42'	83%
0.5 - 1'	0.31'	62%
1' - 1.5'	0.46'	92%

Reviewed By _____ Date _____

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Client: CEC/KEWONIC
Site Name: ELLIOTT DITCH
Project Name: 172-367
Task #: 0006
Log Date: 02/13/19

Soil Log
Version 1.2, 1/20/16

Location ID: ED-01.24-SL05
Interval: 0 ft to 1.5 ft
Gap: 0-31 ft

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 3

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: DMM/MWB
 Data Entry By: Same as above

USDA Texture: SILTY LOAM
USCS Texture: MH

Texture

Soil Color: 2.5Y 3/2
 2nd Soil Color: —

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other: _____

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% 90-100%

Other: Fine Gravel Medium Gravel Coarse Gravel Cobbles

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Notes

Till? Lacustrine? Sand/gravel bed?

Internal Remarks: 02/02/18
1905-1356

Sample Remarks:

Sediment Data Sheet

(2)

Project Name: ELLIOTT DITCH
 Project Number: 172-367-0006
 Field Location ID: ED-01.24-SID6
 Core Type:
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: DMM/MWB
 Cored Date: 02/02/18 1410-1420
 Described By: DMM
 Described Date: 02/13/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
2					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0-0.5	0.42	83%
0.5-1	0.42	83%
1-1.5	0.5	100%
1.5-2	0.46	92%

Reviewed By _____ Date _____

Figure 3. Sample paper sediment logging form. Paper forms will be used only if the electronic data logging system is not available.

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Sediment Log
Version 1.2 / 1/2016

TETRA TECH

Client: CEC/ARCADIC
 Site Name: ELLIOTT DITCH
 Project Name: 172-369
 Task #: 0006
 Log Date: 02/13/18

Location ID: ED-01-24-SL06
 Interval: 0 ft to 2 ft
 Layer: A
 Gap: 0.2 ft

Lab Data

Duplicate?
 Grab?
 Composite?
 Matrix: Sediment
 Soil
 Air
 Water

of Containers: 2

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: SILT LOAM
 USCS Texture: MH

Field Personnel

Logged By: DWM/MWB
 Date Entry By: Same as above

Sample Remarks: * plant fragments

Internal Remarks: 02/07/18
1416-1420

Color

Sediment Color: 2.5Y 3/2
 2nd Sediment Color: -

Other Characteristics

Rocks? <15%
 15-35%
 35-60%
 60-90%
 290%

Rocks? Few
 Common
 Many

Gravel? Fine Gravel
 Medium Gravel
 Coarse Gravel
 Cobbles

Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal

Shells? Shell Fragments?

Structure

Type: Granular
 Sub-angular Blocky
 Angular Blocky
 Single Gran
 Massive
 Other

Grade: Weak
 Moderate
 Strong

Notes

Petrochemical
 Sulfur Other DOP

Odor? Slight
 Moderate
 Strong

Subsiders? 0
 Part Fragments?

Tip? Lacustrine? Sand/gravel bed?

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

USDA Texture

Very Fine
 Fine
 Medium
 Coarse
 Very Coarse

Color

<0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft

USDA Texture

Soil
Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367-0006
 Field Location ID: ED-00.00-SLO3
 Core Type: Geo Probe Boring
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: G. Schwartz
 Cored Date: 6/14/12
 Described By: GS
 Described Date: 6/14/12

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0' - 0.9'		100%
0.9 - 1.7'		100%
1.7 - 2.5'		100%
2.5 - 3.4'		100%
3.4 - 4.0		100%

Reviewed By _____ Date _____

TETRA TECH

Client: ARCADIS

Site Name: ELLIOTT DITCH

Project Name: ARCHIVED SAMPLES

Task #: 172-367

Log Date: 6/14/16

Soil Log

Version 1.2, 1/20/16

Location ID: ED - 00.00 - SLO3

Interval: 1.0 ft to 0.9 ft

Horizon: 1

Gap: ft

Page 1 of

Soil Color: 2.5 YR 5/2

2nd Soil Color:

Color:

Texture: silt loam

USDA Texture: ML

USCS Texture:

Structure Type: Stemilar Subangular Blocky Moderate Strong

Angular Blocky Single Grain Massive Other

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Lab Data: Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: GDS

Data Entry By: Same as above

Other Characteristics:

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Other? Pellicularities Sulphur Other

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 9 %

Shells? Plant Fragments?

Soils? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color:

USDA Texture:

Notes: Leachate? Sanitary?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

2

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Client: Arizona Location ID: ED-00.00-SL-03 Interval: 0.9 ft to 1.7 ft

Site Name: Elliott Ditch Horizon: 1 ft Gap: ft

Project Name: ADA Sample Soil Color: 10YR 3/2 2nd Soil Color:

Task #: 172-367 Texture: Silty clay loam Structure:

Log Date: 10/14/18 USDA Texture: MH USCS Texture:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: GDS Data Entry By: Same as above

Internal Remarks

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Odor? Petrol/chemical Sulfur Other

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 % Sheaths? Plant Fragments?

Substrate? <0.05 # 0.05-0.1 # 0.1-0.2 # 0.2-0.5 # >0.5 #

Notes: Lacustrine? Sand/gravel bed?

USDA Texture:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.00-SL03 Interval: 1.7 to 2.5

Client: Aronaic Site Name: Elliott Ditch

Project Name: ADD Sampling Task #: 172-367

Log Date: 6/14/16

Horizon: 1 Gap: Color:

Soil Color: 10YR 3/2 2nd Soil Color: 10YR 4/2

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Sandy Clay loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Ring & Grain Massive Other:

Grade: Weak Moderate Strong

Field Personnel

Logged By: GDS

Data Entry By: Same as above

Other Characteristics

Rock? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other

Notes: Lacustrine? Semi-gravel bed?

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Internal Remarks

Sample Remarks:

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log Version 1.2, 1/20/16

Location ID: ED-00.00-SLO3 Interval: 2.5 ft to 3.9 ft

Client: ARONIC Site Name: Full# Data Project Name: ADA Samples Task #: 172-167 Log Date: 6/14/16

Horizon: 1 Gap:

Soil Color: 10YR 5/3 2nd Soil Color:

Color:

Texture

USDA Texture: Sandy Clay IJCS Texture: CL

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: ADS Data Entry By: Same as above

Other Characteristics

Rock? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: ∞ Shell? Shell Fragments?

Odor? Petrochemical Sulfur Other

Slight Moderate Strong

Substrate? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color:

USDA Texture:

Notes

Leachate? Sand/gravel back?

TIFF?

Sample Remarks:

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Client: Arctic Location ID: ED-0000-SLO3 Interval: 3.4 ft to 4.0 ft

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Arctic Sediment Sampling Soil Color: 10YR 3/2 2nd Soil Color: 10YR 3/4

Task #: 172-367 Color: 10YR 3/4

Log Date: 6/14/18

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Sand & clay loam

USCS Texture: MH

Type: Subangular Blocky Angular Blocky Single Grain Massive Other

Structure: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: ADS

Date Entry By: Same as above

Other Characteristics

Roots? Few Common Main

Rocks? < 15% 15-35% 35-60% 60-80% > 80%

Odor: Petrochemical Slight Moderate Strong

Other: Lustrous? Same as top?

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 % Plant Fragments?

Sublayers? < 0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft > 0.5 ft

Color:

USCS Texture:

Notes

Tip? Lacustrine? Same as top?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil
Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367.0006
 Field Location ID: ED-00.00-SL04
 Core Type: GeoProbe Boring
 Field Remarks:
 Northing (ft):
 Easting (ft):

Cored By: GDS
 Cored Date: 6/14/18
 Described By: GDS
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 3.6		
0.0' - 0.9'		90%
0.9 - 1.8		90%
1.8 - 2.7		90%
2.7 - 3.6		90%

Reviewed By _____ Date _____

Page 1 of 1

Soil Log

Version 1.2, 1/2016

Location ID: ED-00-00-SL04 Interval: 4.0 m to 6.9 m

Client: ARIZONA Project Name: AT Elliott Ditch Task #: 172-567 Log Date: 6/14/16

Horizon: 1 Gap: in

Soil Color: 2.5YR 4/1 2nd Soil Color: 2.5YR 5/3

Texture: Silty clay loam Structure:

USDA Texture: USCS Texture: MH

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 2 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel: Logged By: GDS Data Entry By: Same as above

Other Characteristics: Rocks? Few Common Many Wood? Wood Black Wood Burned Wood Swirls Wood Chips Wood Fib Charcoal Wood %: 0 % Shell? Plant Fragments? Color:

USDA Texture:

Notes: TIP? Lacustrine? Sand/gravel bed?

Internal Remarks:

Sample Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/2016

Location ID: ED-00-00-SLO4 Interval: 0.9 ft to 1.8 ft

Client: ARCADIS Site Name: Elliott Ditch Project Name: Arch. Sampling Task #: 172-367 Log Date: 6/14/16

Horizon: 1 Gap: ft

Soil Color: 2.5YR 4/2 2nd Soil Color:

Texture

USDA Texture: Silty Clay

USCS Texture: CL w/sand

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other

Wood? Wood Black Wood Burnt Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: CDS

Data Entry By: Same as above

Internal Remarks

Sample Remarks:

Notes: Loose? Sample/gravel head?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log Version 1.2, 1/20/16

Location ID: ED-00.00-SL-4 Interval: 1.0 # to 2.7

Client: Arcon Site Name: Elliott Ditch
 Project Name: ADD. Sampling
 Task #: 172-367
 Log Date: 6/14/18

Horizon: 1 Gap:

Soil Color: 2.5YR 3/2 2nd Soil Color:

Lab Data
 Duplicate? Grab? Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture
 USDA Texture: Silty clay
 USCS Texture: CH

Structure
 Type: Granular Subangular Blocky Angular Blocky Single Grath Massive Other
 Grath: Weak Moderate Strong

Plasticity
 Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel
 Logged By: GDS
 Data Entry By: Same as above

Other Characteristics
 Root? Few Common Many
 Rook? 1-15% 15-35% 35-60% 60-80% 80-95%
 Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood %: 0 %
 Shake? Plant Fragments?
 Substrate? 0-0.05 m 0.05-0.1 m 0.1-0.2 m 0.2-0.5 m >0.5 m
 Color:
 USDA Texture:

Notes
 7M? Lachryme? Sand/gravel bed?

Internal Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Client: ARCAMIC Location ID: ED-00-00-SLO4 Interval: 2.7 ft to 3.0 ft

Site Name: Elliott Ditch Horizon: 1 Gap: ft

Project Name: Arch. Sampling Soil Color: 2.5 YR 3/2 2nd Soil Color:

Task #: 172-367 Texture: Sandy clay Structure:

Log Date: 6/14/16 USDA Texture: CH ICS Texture: CH

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: ADS

Data Entry By: Same as above

Other Characteristics

Feet? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes

Lacustrine? Sand/gravel bed?

Internal Remarks:

Sample Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

So. 1 Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367.0006
 Field Location ID: ED-00.17-SL02
 Core Type: GeoProbe boring.
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: GDS
 Cored Date: 6/14/18
 Described By: GDS
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 0.8'		95%
0.8 - 1.8'		95%
1.8 - 2.8'		95%
2.8 - 3.8'		95%

Reviewed By _____ Date _____

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-17-SLOZ Interval: 0.0 ft to 0.0 ft

Client: ARCADIS Site Name: Elliot Ditch

Project Name: ADB Sampling Task #: 177-367

Log Date: 6/16/18

Horizon: 1 Gap: ft

Soil Color: 24R 3/2 2nd Soil Color:

Texture

USDA Texture: Silty Loam

USCS Texture: ML

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: GDJ

Data Entry By: Same as above

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rock? Few Common Many

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

3 Sublayers? 0.05-0.1 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft 0.5 ft

Color: USDA Texture:

Notes

Leucisane? Sand/Gravel bed?

Internal Remarks

Sample Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.17-SLOZ Interval: 0.8 ft to 1.8 ft

Client: Acorn Site Name: Elliott Ditch Project Name: Additional Sampling Task #: 172-367 Log Date: 6/16/19

Horizon: 1 Gap: ft

Soil Color: 10YR 4/2 2nd Soil Color:

Texture: Sandy loam ML

USDA Texture: USCS Texture:

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: GD Data Entry By: Same as above

Structure: Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other Grade: Weak Moderate Strong

Other Characteristics: Rocks? Few Common Many Very Fine Fine Medium Coarse Very Coarse Fine Gravel Medium Gravel Coarse Gravel Cobble Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Chip Charcoal Plant Fragments? Wood % 0 % Shell? Shale? Silty? Siltier Other Layers? 0-0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft Color: USDA Texture:

Notes: Laminar? Sand/gravel bed?

Sample Remarks: Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page of

Soil Log

Version 1.2, 1/20/16

Location ID: ED-CO-17-SLOZ Interval: 1.4 ft to 2.8 ft

Client: ARCADIS Project Name: Elliott Ditch

Site Name: ADW. SAMPLING Task #: 172-3167

Log Date: 6/16/18

Horizon: 1 Gap: ft

Soil Color: 7.5YR 3/2 2nd Soil Color:

Color:

Texture

USDA Texture: Silty loam

JSCS Texture: MH

Type: Granular Subangular Blocky Angular Blocky Single Grain Masslike Other

Grade: Weak Moderate Strong

Lab Data

Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water

of Containers: 3

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: GDS

Data Entry By: Same as above

Other Characteristics

Rocky? Few Common Many

Roots? <15% 15-35% 35-60% 61-90% >90%

Petrochemical: Sulfur Other

Odor? Slight Moderate Strong

Plant Fragments? Yes No

Species? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Yes No

Substrate? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes

TP? Lucidus? Sand/gravel bed?

Sample Remarks

Internal Remarks:

Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.17-SLOZ Interval: 2.8 in to 3.8 in

Client: Arizona Project Name: Elliott Ditch

Task #: 02-367-0090 Log Date: 6/14/18

Horizon: 1 Gap:

Soil Color: 2.5YR 4/2 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: ADS Data Entry By: Same as above

Sample Remarks:

Internal Remarks:

Texture

USDA Texture: Sandy clay loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Odor? Petrochemical Sulfur Other

Notes: Leaching? Sand/gravel bed?

Wood

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 % Shells? Plant Fragments?

Substratum? <4 US ft Color:

0.05-0.1 ft 0.1-0.1 ft

0.2-0.3 ft >0.5 ft

USDA Texture:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

SOP Sediment Logging Elliott Ditch
16
January 2016

Soil Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367.0006
 Field Location ID: ED-00.19-SL01
 Core Type: Geoprobe boring
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: GDS
 Cored Date: 6/14/18
 Described By: GDS
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0' - 0.8'		100%
0.8 - 1.5'		100%
1.5 - 1.8'		100%
1.8 - 2.3'		100%
2.3 - 3.5'		100%
3.5 - 4.0		100%

Reviewed By _____ Date _____

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-19-SLO1 Interval: 0-0 in to 1.0 ft

Client: ARCANE Site Name: Elliott Ditch Project Name: Additional Sampling Task #: 077-362 Log Date: 6/14/18

Horizon: 1 Gap:

Soil Color: 2.5YR 3/2 2nd Soil Color: 10YR 5/3

Texture: Silty clay loam Structure: Weak

ASDA Texture: MH LISCS Texture: w/ sand

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Air Water \$ of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: GDS Date Entry By: Same as above

Other Characteristics: Roots? Few Continuous Heavy Rock? <1.5% 1.5-3% 3.5-8% 8-15% 15-35% 35-80% 80-90% 90% Wood? Wood Black Wood Blamed Wood Sawdust Wood Chips Wood Pulp Charcoal Wood %: 75 %

Color? Petrochemical Sulfur Other Slight Moderate Strong Shear? Plant Fragments? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Notes: Lactating? Sand/gravel bed? USDA Texture:

Sample Remarks:

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Location ID: ED-M-19-SLO1 Interval: 0.6 ft to 1.5 ft

Horizon: 1 Gap: ft

Color: 2.5YR 3/2 10YR 4/4

2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Sandy clay

USCS Texture: CH

Notes: w/ pans

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Field Personnel

Logged By: GDS

Data Entry By: Same as above

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other

Notes:

Internal Remarks

Well graded

Notes

USDA Textures

Very Fine Fine Medium Coarse Very Coarse

Gravel Fine Gravel Medium Gravel Coarse Gravel Cobbles

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shell? Plant Fragments?

Subsiders? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color:

USDA Texture:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Location ID: ED-10.1A-SLO1 Interval: 1.5 ft to 1.8 ft

Client: ARAWAC Site Name: Elliott Ditch Project Name: Additional Sampling Task #: 172-3107 Log Date: 6/14/18

Horizon: 1 Gap: ft

Soil Color: 2.5YR 3/1 2nd Soil Color: N/A

Texture: Silty Clay loam Structure: N/A

USDA Texture: JSCS Texture:

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1 Priority: Urgent (1) Standard (3) As Able (3) As Needed (4)

Field Personnel: Logged By: GDJ Data Entry By: Same as above

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic 06/14/18

Rocks? Few Common Many 1-15% 15-35% 35-60% 60-90% >90%

Other Characteristics: Wood? Wood % 0 Plant Fragments? Wood? Black Wood Burned Wood Sawdust Wood Chips Mixed Pulp Charcoal Shells? Sublayers? Color:

Odor? Petrochemical Sulfur Other Notes: Leachate? Sand/gravel bed? JSDA Texture:

Internal Remarks:

Sample Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Location ID: ED-10,19-601 Interval: 1.8 ft to 2.3 ft

Client: Arconic Project Name: Elliott Ditch

Task #: 172-367-0109 Log Date: 6/14/18

Horizon: 1 Gap: ft

Soil Color: 10YR 7/3 2nd Soil Color:

Texture

USDA Texture: Sandy Clay Loam

USCS Texture: ML

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Lab Data

Duplicate? Grab? Composite? Matrix: MSD

Sediment Soil Air Water

of Containers: 7

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: GDS

Date Entry By: Same as above

Other Characteristics

Rock? Few Common Many

Rock? <1% 15-35% 35-60% 60-90% >90%

Color? Petrochemical Sulfur Other

Wood? Very Fine Fine Medium Coarse Very Coarse

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 % Shells? Phloem Fragments? Stray Layers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes

TIP? Locust tree? Sand/gravel bed?

Sample Remarks

Internal Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Location ID: ED-0019-SL01-2-2-3 Interval: 2.0 to 2.8 ft 2.3 to 3.5

Client: Arizona 6/14/16

Site Name: Elliott Ditch

Project Name: ADD: Sampling

Task #: 172-362

Log Date: 6/14/16

Horizon: 1 Gap:

Soil Color: 10 YR 7/3 2nd Soil Color:

Texture: Sandy loam Structure:

USDA Texture: HL Grade: Weak

USCS Texture: Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water

of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: GDS Internal Remarks:

Data Entry By: Same as above

Other Characteristics: Roots? Few Common Many Very Fine Fine Medium Coarse Very Coarse Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Strip Charcoal

Rocks? <15% 15-35% 35-60% 60-80% >80%

Color? Petrochemical Slight Moderate Strong

Shells? Plant Fragments? Substrate? Wood %

Notes: Laminar? Sand/gravel lens?

USDA Texture:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Client: Arzene Location ID: ED-0019-SLO1 Interval: 3.5 ft to 4.0

Site Name: Elliott Ditch Horizon: 1 Gap: ft

Project Name: Arzene Sediment Samples Soil Color: 10YR 4/2 2nd Soil Color:

Task #: 172-367 Texture: Sandy Clay loam Structure:

Log Date: 6/14/16 USDA Texture: IJCS Texture: MH

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: GDS Data Entry By: Same as above

Sample Remarks: Internal Remarks:

Texture

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Structure

Grade: Weak Moderate Strong

Other Characteristics

Rock? Few Common Mafic

Rock? <15% 15-35% 35-60% 60-80% >80%

Odor? Petrochemical Sulfur Other

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics: Very Fine Fine Medium Coarse Vary Coarse

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Shells? Plant Fragments?

Substrate? <0.05 ft 0.05-1 ft 1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes: Limestone? Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil
Sediment Data Sheet

Project Name: Elliott Ditch Additional Sample
 Project Number: 172-367.0006
 Field Location ID: ED-00.21-SL01
 Core Type: Geoprobe Boring
 Field Remarks:
 Northing (N):
 Easting (E):

Cored By: GDS
 Cored Date: 6/14/18
 Described By: GDS
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 3.8		75%
0.0 - 1.0		
1.0 - 2.0		
2.0 - 2.9		
2.9 - 3.8		

Reviewed By _____ Date _____

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-21-SLO Interval: 0.0 to 1.0 ft

Client: ARCADIS Project Name: Elliott Ditch

Site Name: ED-00-21-SLO Task #: 172-367-0009

Log Date: 6/14/16

Horizon: 1 Gap: Color:

Soil Color: 10YR 3/2 2nd Soil Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment
 Soil
 Air Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: Silty loam

USCS Texture: ML

Structure

Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other

Grade: Weak
 Moderate
 Strong

Other Characteristics

Rocks? Few Common Many

Rec. 4.3: 1-15% 15-35% 35-60% 60-90% 90-100%

Occur? Petrochemical
 Gull Moderate
 Other Sluggish

Wood? Wood Black Wood
 Burner/Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal

Wood %: %

Similar? Plant Fragments? Color:

Suzanyang? 0-0.5 ft 0.5-1 ft
 1-2 ft 2-5 ft 5-10 ft

Notes:

TIP Limestone? Sand/gravel bed?

Field Personnel

Logged By: ADG

Date Entry By: Same as above

Sample Remarks:

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

FD

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Client: ARCANE
 Site Name: Elliott Ditch
 Project Name: ADD Sampling
 Task #: 172-367 - 0009
 Log Date: 6/14/18

Location ID: ED-00.21-SLO1 Interval: 1.0 ft to 2.0 ft
 Horizon: 7 Gap: ft

Soil Color: 2.5Y 4/3 2nd Soil Color:

Texture
 USDA Texture: Sandy clay loam
 USCS Texture: MH

Structure
 Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:
 Grade: Weak Moderate Strong

Lab Data
 Duplicate? Grab? Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 2
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel
 Logged By: GT
 Date Entry By: Same as above

Plasticity
 Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics
 Wood? Very Fine Fine Medium Coarse Very Coarse
 Wood Type: Hard Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood %:
 Shales? Plant Fragments?
 Substratum?
 Color: Slight Moderate Strong
 Petrochemicals: Sulfur Other:

Notes
 TWP Lacustrine? Sand/gravel bed?

Internal Remarks

USDA Texture
 Very Fine Fine Medium Coarse Very Coarse
 Very Fine Fine Medium Coarse Very Coarse
 Very Fine Fine Medium Coarse Very Coarse
 Very Fine Fine Medium Coarse Very Coarse

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/23/16

Location ID: ED-00-11-SLO Interval: 7.0 ft to 2.9 ft

Client: Arizona

Site Name: Elliott Ditch

Project Name: Art Sampling

Task #: 172-367

Log Date: 4/11/16

Horizon: 1 Gap: ft

Soil Color: 2.5YR 2.5/1 2nd Soil Color:

Texture: Silty loam Structure:

USDA Texture: ML Type: 2.5YR 2.5/1

USDA Texture Legend: Granular Weak Moderate Strong

L/USCS Texture:

Matrix: Sediment Soil Air Water

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

of Containers: 1

Lab Data: Duplicate? Grab? Composite?

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel: Logged By: gds Date Entry By: Same as above

Other Characteristics: Very Fine Fine Medium Coarse Very Coarse

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Flard/Fragments?

Stoniness? 0-0.5 ft 0.5-1 ft 1-2 ft 2-3 ft >3 ft

Color? Slight Moderate Strong

Petrochemical: Sulfur Other

Notes: Lacerated? Sand/gravel bed?

TIP?

Internal Remarks:

Sample Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.01-SLO1 Interval: 7.9 m to 3.8

Client: Arcenic Project Name: Elliott Ditch
 Site Name: Ad. Sample Task #: 172-367 Log Date: 6/14/18

Horizon: 1 Gap: m

Soil Color: 2.5YR 2.5/1 2nd Soil Color:

Texture: clay Structure: CH

USDA Texture: USCS Texture:

Lab Data: Duplicate? Grab? Composite?
 Matrix: Sediment
 Soil Air Water
 # of Containers: 1 Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Field Personnel: Logged By: ADS
 Date Entry By: Same as above

Plasticity: Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Other Characteristics: Roots? Very Fine Fine Common Many
 Medium Coarse Very Coarse
 Rooks? <15% 15-35% 35-60% 60-80% >80%

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood %: φ Plant Fragments?

Odor? Petrochemical Sulfur Other

Subsidence? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Notes: Luster? Sand/gravel/bed?

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil
Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367.0006
 Field Location ID: ED-00.23-SL01
 Core Type: GeoTube Boring
 Field Remarks:
 Northing (N):
 Easting (E):

Cored By: GDS
 Cored Date: 6/14/18
 Described By: GDS
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 3.9		98%
0.0 - 0.7		
0.7 - 1.2		
1.2 - 2.0		
2.0 - 2.9		
2.9 - 3.9		

Reviewed By _____

Date _____

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-23-SLO1 Interval: 0.0 ft to 0.7 ft

Client: ARCADIS Project Name: Elliott Ditch Task #: 172-367-0009 Log Date: 6/14/18

Site Name: Elliott Ditch

Project Name: Additional Sampling

Task #: 172-367-0009

Log Date: 6/14/18

Horizon: 1 Gap:

Soil Color: 7.5YR 3/2 2nd Soil Color:

Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Silty Clay loam

JSCS Texture: CH

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Plant Fragments?

Shells?

Sublayers?

Color:

JSDA Texture:

Field Personnel

Logged By: GOS

Date Entry By: Same as above

Notes

Tri? Lacustrine? Sand/gravel bed?

Sample Remarks

Internal Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log Version 1.2, 1/20/16

Client: Arson's Location ID: ED-00-23-3201 Interval: 0.7 ft to 1.2 ft

Site Name: Elliott Ditch 1 Horizon: 10YR 4/3 gap: 10YR 5/6 03 061418

Project Name: Additional Sampling Soil Color: 10YR 4/3 2nd Soil Color: 10YR 5/6

Task #: 178-367 area Texture: Silty clay Structure: CH

Log Date: 6/14/18 # of Containers: 2

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

Priority: Urgent (1) Standard (2) As Aft. (3) As Needed (4)

Plasticity

Non-plastic Slightly plastic Moderately plastic Very plastic

Field Personnel

Logged By: GDJ

Data Entry By: Same as above

Internal Remarks

USDA Texture

USCS Texture

Color

Soil Color: 10YR 4/3 2nd Soil Color: 10YR 5/6

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Other Characteristics

Peaks? Few Common Many

Rock? 1-15% 15-35% 35-50% 50-70% 70-90%

Other Characteristics: Very Fine Fine Medium Coarse Very Coarse

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shale? Plant Fragments?

Sublayers? 0-0.5 ft 0.5-1 ft 1-0.2 ft 0.2-0.5 ft 0.5 ft

Color: USDA Texture:

Notes

Lactation? Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.23-S101 Interval: 1.2 ft to 2.0 ft

Client: Arconic Project Name: Bellco# Ditch Task #: 172-367 Log Date: 6/14/16

Horizon: 1 Gap:

Soil Color: 10YR 4/3 2nd Soil Color: 10YR 5/6

Texture
USDA Texture: Silty Clay
USCS Texture: CL

Structure
Type: Granular Subangular Blocky Angular Blocky Single Grain Masses Other _____
Grade: Weak Moderate Strong

Lab Data
Duplicate? Grab? Composite?
Matrix: Sediment Soil Air Water
of Containers: 1
Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel
Logged By: GDJ
Date Entry By: Same as above

Other Characteristics
Rocks? Few Common Many
Roots? <15% 15-35% 35-80% 80-90% 90%
Odor? Petrochemical Sulfur Other _____
Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic
Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pile Charcoal _____
Stalks? Plant Fragments?

Notes
Till? Lacustrine? Sand/gravel bed?

Internal Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.23-SLO1 Interval: 2 to 2.9

Client: Arctic
 Site Name: Elliott Ditch
 Project Name: Additional Sampling
 Task #: 176-767-0209
 Log Date: 6/14/18

Horizon: 1 Gap:

Soil Factor: 10yr 2/2 Color: 7.5yr 5/6

Texture: Clay Structure: CH

USDA Texture: Clay I/SCS Texture: CH

Lab Data: Duplicate? Grmb? Composite? Matrix: Sediment Soil Air Water # of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: GDJ Data Entry By: Same as above

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Rocky? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Other Characteristics: Very Fine Fine Medium Coarse Very Coarse

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Shell Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes: Lachrym? Sand/gravel bed?

Internal Remarks: rebox feature

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Interval: 2.9 ft to 4.0 ft

Location ID: ED-00-23-SL01

Horizon: 1 Gap: ft

Color: 10YR 2/2 2nd Soil Color: 10YR 6/16

Client: ACCORIC

Site Name: Elliott Ditch

Project Name: Additional Sample

Task #: 172-362-0009

Log Date: 6/14/16

Lab Data

Duplicate? Grab? Composte?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Clay

USCS Texture: CH

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Structure

Type: Crumbly Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Field Personnel

Logged By: CDS

Date Entry By: Same as above

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% 90%

Odor? Petrochemical Sulfur Other

Wood? Wood Blank Wood Engineered Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shale? Plant Fragments?

Substrate? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes

1/8" L. structure? Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367.0006
 Field Location ID: ED-00.29-SL01
 Core Type: Geo Probe Boring
 Field Remarks:
 Northing (ft):
 Easting (ft):

Cored By: GDS
 Cored Date: 6/14/18
 Described By: GDS
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0		93.6

- 0.0 - 0.7
- 0.7 - 1.7
- 1.7 - 2.7
- 2.7 - 3.7

Reviewed By _____ Date _____

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Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-27-SLO1 Interval: 0.0 ft to 1.0 ft

Client: ARCIC Horizon: 1 Gap:

Site Name: Elliott Ditch Soil Color:

Project Name: Additional Sampling 2nd Soil Color:

Task #: 172-367 Color: 10YR 4/2

Log Date: 10/14/16

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Silty loam

USCS Texture: ML

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Structure: Weak Moderate Strong

Other Characteristics

Access? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other

Plasticity: Non-Plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp/Charcoal

Stems? Plant Fragments?

Substrata? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color:

USDA Texture:

Field Personnel

Logged By: GDS

Data Entry By: Same as above

Sample Remarks:

Internal Remarks:

Notes: Lamination? Sand/gravel head?

7/1?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Client: Arceuth Location ID: ED-00.27-SLC1 Interval: 1.0 m to 1.9 m

Site Name: Elliott Ditch Horizon: Y Gap: m

Project Name: ADD. Sampling Soil Color: 2.5YR³/1 2nd Soil Color:

Task #: 172-367 Log Date: 6/14/18

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

(USDA) Texture: Silty clay loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel: Logged By: GDS Data Entry By: Same as above

Internal Remarks:

Sample Remarks:

Notes: Tip? Lacustrine? Saprophytic/gravel bed?

Soil Color

1st Soil Color: 2nd Soil Color:

Structure

Wood? Wood Black Wood Burned Wood Sawdust

Wood Chips? Wood Pulp Charcoal

Wood %: %

Shells? Plant Fragments?

Substrata? <0.05 mm 0.05-0.1 mm 0.1-0.2 mm 0.2-0.5 mm >0.5 mm

Color: USDA Texture:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.17-SL01 Interval: 1.9 # to 2.8 #

Client: Alfred Aronic

Site Name: Elliott Ditch

Project Name: Additional Sampling

Task #: 172-367

Log Date: 6/14/16

Horizon: (

Gap:

Color: 10YR 3/1

2nd Soil Color:

Lab Data

Duplicate?

Grab?

Composter?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: Silty Loam

USCS Texture: ML

Structure

Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other

Grade: Weak
 Moderate
 Strong

Other Characteristics

Rocks? Few (Common Matrix)
 Common (Many)

Rocks? <15%
 15-35%
 35-60%
 60-80%
 >80%

Plasticity: Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Substrate?

Odor? Pseudochemical
 Sulfur
 Other

Color:

Substrate?

USDA Texture:

Notes: Leachate? Sand/gravel bed?

TM?

Field Personnel

Logged By: GDS

Data Entry By: Same as above

Internal Remarks

Sample Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Location ID: ED-0077-SL01 Interval: 2.8 ft to 3.7 ft

Client: Arctic
 Site Name: Elliott Ditch
 Project Name: Advanced Sampling
 Task #: 172-367
 Log Date: 6/14/18

Horizon: 1 ft
 Gap: ft

Soil Color: 2.5YR3/1
 2nd Soil Color:

Texture
 USDA Texture: Clay
 USCS Texture: CH

Structure
 Grade: Weak Moderate Strong
 Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Lab Data
 Duplicate?
 Grab?
 Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 1
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity
 Non-Plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Field Personnel
 Logged By: GDJ
 Data Entry By: Same as above

Other Characteristics
 Rocks? Few Common Many
 Petrochemical: Slight Moderate Strong
 Odor: Sulfur Other
 Notes: Lichens? Sand/gravel bed?

Wood?
 Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood %: 0 %
 Skelets? Plant Fragments?

Subsidence?
 <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.3 ft
 >0.3 ft

Cellulose? USD's Texture:

Internal Remarks
 Sample Remarks:
 Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367.0006
 Field Location ID: ED-00.29-SL01
 Core Type: Geo Probe Boring
 Field Remarks:
 Northing (ft):
 Easting (ft):

Cored By: GDS
 Cored Date: 6/14/18
 Described By: GDS
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0		93.6

- 0.0 - 0.7
- 0.7 - 1.7
- 1.7 - 2.7
- 2.7 - 3.7

Reviewed By _____ Date _____

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-29-SLO1 Interval: 0.0 ft to 0.75 0.7 6/14/16

Client: Argonne Project Name: Elliott Ditch Task #: 172-567 Log Date: 6/14/16

Site Name: Elliott Ditch

Project Name: Elliott Ditch

Task #: 172-567

Log Date: 6/14/16

Horizons: 1 ft Gap: ft

Soil Color: 2.5Y 3/7 2nd Soil Color:

Color:

Texture: silty loam Structure:

USDA Texture: USCS Texture: ML

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel: Logged By: GDS Data Entry By: Same as above

Other Characteristics: Rocks? New Common Many Vary Fine Fine Medium Coarse Very Coarse Fine Sand: 15-35% 35-60% 60-90% 20% 0 % Wood: Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Plant Fragments? Shells? Substrates? 0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft 0.5 ft USDA Texture:

Odor: Petrochemical Sulfur Other Notes: Limestone? Sand/gravel bed?

Internal Remarks:

Sample Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

FD

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Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.29-S101 Interval: 0.7 ft to 1.7 ft

Client: ARCORAC Site Name: Elliott Ditch Project Name: ARC SANDY Task #: 122-367 Log Date: 6/14/16

Horizon: 1 Gap: ft

Color: 10YR 4/2 2nd Soil Color:

Texture: silty clay loam MH with sand

USDA Texture: USCS Texture:

Structure: Grade:

Other Characteristics:

Plasticity:

Field Personnel:

Lab Data:

Priority:

Internal Remarks: Redox feature

Notes:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Field Duplicate

Page 1 of 1

Soil Log Version 1.2, 1/20/18

Client: ARCserve Location ID: ED-00-29-S001 Interval: 1.7 m to 2.7 m

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: ADL Sample Log Soil Color: 5YR3/1 2nd Soil Color:

Task #: 122-367-0001 Color:

Log Date: 6/14/18

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Silty loam

USGS Texture: ML

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massan's Other:

Grade: Weak Moderate Strong

Other Characteristics

Roots? Few Common Many

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Probes: <15% 15-35% 35-60% 60-90% >90%

Field Personnel: Logged By: ADS Data Entry By: Same as above

Wood? Wood? Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: %

Sheets? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color:

USDA Texture:

Notes

7/8? Lenticular? Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Location ID: ED-00029-SL01 Interval: 2.7 ft to 3.7 ft

Client: Prozac Site Name: Elliott Ditch Project Name: ADD - Sewage Task #: 172-367-2009 Log Date: 6/14/16

Horizon: 1 Gap:

Soil Color: 5Y 2.5/1 2nd Soil Color:

Texture: Clay Structure: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

USDA Texture: Very Fine Fine Medium Coarse Very Coarse

USCS Texture: CH

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: GDS Data Entry By: Same as above

Other Characteristics: Root? Few Common Many Rock? <15% 15-30% 35-50% 60-75% 75-90% Petrochemical? Sulfur Other? Color? Slighl Moderate Strong Wood? Wood Black Wood Burned Wood Sphered Wood Chips Wood Pulp Charcoal Wood % 0 % Shell? Plant Fragments? Suppl. Fr. % <0.05 0.05-0.1 0.1-0.2 0.2-0.5 >0.5

Notes: Lacustrine? Sand/gravel bed? TMP USDA Texture:

Sample Remarks:

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367-0006
 Field Location ID: ED-00.31-SLO1
 Core Type: Geo Probe Boring
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: GDS
 Cored Date: 6/14/18
 Described By: GDS
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 3.8		95%

- 0.0 - 1.0
- 1.0 - 2.0
- 2.0 - 2.8
- 2.8 - 3.8

Reviewed By _____ Date _____

TETRA TECH

Client: ARCADIS

Site Name: Elliott Ditch

Project Name: Redwood Sampling

Task #: 172-767

Log Date: 6/14/16

Location ID: ED-00-31-SL01

Interval: 0.0 ft to 1.0 ft

Horizon: 1

Gap:

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Version 1.2, 12/01/16

Soil Log

Soil Color: 10YR 3/3 2mm Soil Color:

Texture: Sandy clay loam CH

USDA Texture: USCS Texture:

Structure: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Lab Data: Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: LOS Data Entry By: Same as above

Other Characteristics: Rocks? Very Fine Fine Medium Coarse Very Coarse Fine Gravel Medium Gravel Coarse Gravel Cobbles

Wood? Black Wood Bark/med Wood Sawdust Wood Chips Wood Pulp Charcoal

Shales? Plant Fragments? Color:

Supplifiers? ≤ 0.05 ft $0.05-0.1$ ft $0.1-0.2$ ft $0.2-0.5$ ft > 0.5 ft

USDA Texture:

Notes: Limestone? Sand/gravel band? Rip?

Internal Remarks:

Sample Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log
Version 1.2, 1/20/16

Location ID: ED-0031-5L01 Interval: 1.0 ft to 2.0 ft

Client: ARCORE Site Name: ELLIOTT DITCH Project Name: ADDITIONAL SAMPLING Task #: 177-367 Log Date: 6/14/18

Horizon: 1 Gap:

Soil Color: 10YR 4/4 2nd Soil Color:

Texture: Sandy Clay loam Structure: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

USDA Texture: ML USCS Texture:

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 2 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: GDJ Data Entry By: Same as above

Other Characteristics: Roots? Few Common Many Very Fine Fine Medium Coarse Very Coarse Blue Gravel Medium Gravel Coarse Gravel Cobbles Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Stable? Plant Fragments?

Rocks? <15% 15-35% 35-60% 60-90% >90% Petrochemical Sulfur Other:

Substrata? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.3 ft >0.3 ft

Notes: Laciniform? Sand/gravel bed?

Sample Remarks:

Internal Remarks:

Color: USDA Texture:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/29/16

Client: ARCOSK
 Site Name: Elliott Ditch
 Project Name: Abandoned Sandpits
 Task #: 172-367
 Log Date: 6/14/12

Location ID: ED-00.31-SL01 Interval: 2.0 ft to 2.8 ft
 Horizon: 1 Gap: ft
 Soil Color: 10YR 5/3

Lab Data

Duplicate?
 Grab?
 Composite?

Sediment
 Soil
 Air
 Water

of Containers: 1

Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: Sandy Clay loam

USCS Texture: MH

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Structure

Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other

Weak
 Moderate
 Strong

Other Characteristics

Very Fine
 Fine
 Medium
 Coarse
 Very Coarse

Fine Gravel
 Medium Gravel
 Coarse Gravel
 Cobbles

<15%
 15-35%
 35-60%
 60-90%
 >90%

Slight
 Moderate
 Strong

Petrochemical
 Sulfid.
 Other

Field Personnel


Logged By: GOS
 Data Entry By: Same as above

Notes

Lactose? Semi-gravel bed?

USDA Texture:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.



TETRA TECH

Soil Log

Version 1.2, 10/2016

Page 1 of 1

Client: ARCADIS

Site Name: Elliott Ditch

Project Name: 172 Additional Sample

Task #: 172-367

Log Date: 6/14/18

Location ID: ED-00-31-SL-01

Interval: 2.8 m to 3.8 m

Horizon: 1

Gap: m

Soil Color: 10YR 4/2

2nd Soil Color:

Lab Data

Duplicate?

Grab?

Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 1

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture

USDA Texture: silty clay

USCS Texture: CH

Plasticity

<input type="checkbox"/>	Non-plastic
<input type="checkbox"/>	Slightly Plastic
<input type="checkbox"/>	Moderately Plastic
<input type="checkbox"/>	Very Plastic

Structure

Type:

<input type="checkbox"/>	Granular
<input type="checkbox"/>	Subangular Blocky
<input type="checkbox"/>	Angular Blocky
<input type="checkbox"/>	Single Grain
<input type="checkbox"/>	Massive
<input type="checkbox"/>	Other

Grade:

<input type="checkbox"/>	Weak
<input type="checkbox"/>	Moderate
<input type="checkbox"/>	Strong

Field Personnel

Logged By: GDS

Data Entry By: Same as above

Other Characteristics

Roots? Few
 Common
 Many

Stones? <15%
 15-35%
 35-80%
 80-90%
 >90%

Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal

Wood %: %

Shells? Shell Fragments?

Coarse? Slight
 Moderate
 Strong

Color:

Supplies? ft
 ft
 ft
 ft

Notes

Leucostoma? Sandgrain bed?

USDA Texture:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

S-1 Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367.0006
 Field Location ID: ED-00.33-SL01
 Core Type:
 Field Remarks:
 Northing (ft):
 Easting (ft):

Cored By: GDS
 Cored Date: 6/14/18
 Described By: GDS
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 4.0		100 %
0.0 - 0.7		
0.7 - 1.6		
1.6 - 2.3		
2.3 - 3.1		
3.1 - 4.0		

Reviewed By _____ Date _____

Page _____ of _____

Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.33-SL01 Interval: 0.0 ft to 0.7 ft

Client: Arcevac Site Name: Elliott Ditch

Project Name: Additional Sampling Task #: 172-362 east

Log Date: 6/14/16

Horizon: 1 Gap: _____ ft

Soil Color: 10YR 3/5 2nd Soil Color: N/A

Texture: silty clay loam Structure: _____

USDA Texture: _____ USCS Texture: CH

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: GDS

Date Entry By: Same as above

Internal Remarks

Sample Remarks

Notes

7MP? Lacustrine? Sandstone? Sandstone bed?

Other Characteristics

Rocks? Few Common Many

Ranker? <15% 15-35% 35-60% 60-90% >90%

Color? Petrological Sulfur Other

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: _____

USDA Texture: _____

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

ED-00.33-SL01

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Soil Log Version 1.2/1/2016

Location ID: ED-00033-SL01 Interval: 0.7 m to 1.6 m

Client: Arcenic Site Name: Elliott Ditch Project Name: Additional Sample Task #: 172-367 Log Date: _____

Horizon: 1 Gap:

Soil Color: 10YR 4/4 2nd Soil Color:

Texture: Sandy Clay CH

USDA Texture: USCS Texture:

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Structure: Type US Grade: Weak Moderate Strong

Other Characteristics: Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Rocks? <15% 15-35% 35-60% 60-90% >90% Color? Petrochemical Sulfur Other Shell? Shell Fragments? Staleness? Staleness? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel: Logged By: GD Data Entry By: Same as above

Notes: Trip Lacustrine? Same/Gravel Acid?

Sample Remarks:

Internal Remarks:

USDA Texture:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil Log Version 1.2, 1/20/16 Page of

Client: _____

Location ID: ED-00.33-SL01 Interval: 1.6 ft to 2.8 ft

Site Name: _____

Project Name: _____

Task #: _____

Log Date: _____

Horizon: 1 Gap: ft

Soil Color: 10YR 4/4

Color:

USDA Texture:

USOS Texture: CU

Texture: Sandy Clayey loam

Structure:

Structure Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Structure Grade: Weak Moderate Strong

Lab Data

Duplicates? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: LDJ

Data Entry By: Same as above

Internal Remarks

Sample Remarks:

Notes

Notes: Lacin/tree? Sand/gravel bed?

Other Characteristics

Rocks? New Common Many

Rock? <15% 15-35% 35-60% 60-75% >80%

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Wood Black Wood Burn'd Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %:

Shells? Plant Fragments?

Sublayers?

Color:

USDA Texture:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Client: Arconic Location ID: ED-00-83-SLO Interval: 3.1 ft to 4.0 ft

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Additional Sampling Soil Color: 10YR 3/1 Color:

Task #: 172-367 2nd Soil Color:

Log Date: 6/14/16

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Silty clay

USCS Texture: CH

Type: Granular Subangular blocky Angular blocky Single grain Massive Other:

Structure: Weak Moderate Strong

Other Characteristics

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Stems? Plant Fragments?

Substrains?

Color: USDA Texture:

Field Personnel

Logged By: GD

Date Entry By: Same as above

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Notes

Thin? Lacustrine? Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log Version 1.2, 1/20/16

Client: Arctic

Site Name: Elliott Ditch

Project Name: Additional Sampling

Task #: _____

Log Date: _____

Location ID: ED-00-33-SLO1

Interval: 2.3 ft to 3.1 ft

Horizon: 1

Gap:

Soil Color: 7.5YR 8/1

2nd Soil Color: 7.5YR 4/2

Texture

USDA Texture: Silty clay loam

USCS Texture: ML-GI micls

Structure

Type: _____

Grade: _____

Lab Data

Duplicate?

Gleb?

Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: 2

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Plasticity

Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Field Personnel

Logged By: GDJ

Data Entry By: Same as above

Other Characteristics

Roots? New
 Common
 Many

Roots? <15%
 15-35%
 35-60%
 60-90%
 >90%

Odor? Petrochemical
 Sulfur
 Other

Plasticity: Very Fine
 Fine
 Medium
 Coarse
 Very Coarse

Other: Fine Gravel
 Medium Gravel
 Coarse Gravel
 Cobbles

Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal

Shrubs? Plant Fragments?

Sublayers?

Color: _____

USDA Texture: _____

Notes

Lacustrine? Sandy/gravel bed?

Sample Remarks

Internal Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367.0006
 Field Location ID: ED-00.36-SLO1
 Core Type: ~~Free Probe~~ boring as Auger
 Field Remarks:
 Northing (ft):
 Easting (ft):

Cored By: GDS
 Cored Date: 6/14/18
 Described By: GDS
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'	0-1				
4	0-1				
	0-1				
	0-1				

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 0.1		100
0.0 - 0.4 as		
0.0 - 0.5		
1.0 - 1.8 as		
0.5 - 1.0		
1.0 - 0.8		
2.0 - 2.5		
2.5 - 3.0		
3.0 - 3.5		
3.5 - 4.0		

Reviewed By _____

Date _____

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Soil Log

Version 1.2, 1/2016

Client: ARCADIS Location ID: ED-06.36-SLO1 Interval: 0.0' to 0.4'

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Archived Sampling Soil Color: 10YR 6/2 2nd Soil Color: 10YR 8/6

Task #: 172-367 Log Date: 6/14/18 1200 1050

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Sandy Clay w/ sand

USCS Texture: CH

Structure Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Structure Grade: Weak Moderate Strong

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color:

USDA Texture:

Notes

TR? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: ADS

Data Entry By: Same as above

Sample Remarks

Internal Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil Log Version 1.2, 1/2018 Page 1 of 1

Client: ARCADIC Location ID: ED-00.36-S-01 Interval: 0.0' to 0.5'

Site Name: Elliott Ditch Horizon: 2.5 yr 1/2 in Gap:

Project Name: Additional Sampling Soil Color: 2.5 YR 3/2 2nd Soil Color:

Task #: 172-367 Color:

Log Date: 6/14/16 1050

Lab Data

Duplicate? Grab? Composite?

Metrs: Sediment Soil Air Water

\$ of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: LOS

Date Entry By: Same as above

Texture

USDA Texture: Silt loam

USCS Texture: ML

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Other Characteristics

Rocks? Few Common Many

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Rocks? <15% 15-35% 35-60% 60-90% ≥90%

Odor? Petrochemical Sulfur Other

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes: Tip? Lacustrine? Sand/gravel bed?

Sample Remarks:

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/11

Location ID: ED-00.36-SLO1 Interval: 0.5 ft to 1.0 ft

Client: ARCENIC Site Name: Elliott Ditch Project Name: Archaeological Sampling Task #: 172-367 Log Date: 6/14/16 1050

Horizon: 1 Gap: ft

Soil Color: 2.5YR 3/2 2nd Soil Color:

Texture
USDA Texture: Silt loam
USCS Texture: ML

Structure
Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other
Grade: Weak Moderate Strong

Lab Data
Duplicate? Grab? Composite?
Matrix: Sediment Soil Air Water
of Containers: 1
Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity
 Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel
Logged By: GDS
Data Entry By: Same as above

Other Characteristics
Rocks? Few Common Many
Rocks? <15% 15-35% 35-60% 60-90% >90%
Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
Wood % %
Shells? Plant Fragments?
Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
Color:
USDA Texture:

Notes
Lacustrine? Sand/gravel bod?
Tip?

Internal Remarks
Sample Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log Version 1.2, 1/20/11

Client: Arizona Location ID: ED-00.36-SL01 Interval: 1.0 ft to 1.5 ft

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Add. Insect Sampling Soil Color: 2.5 YR 9/2 2nd Soil Color:

Task #: 172-362 Color:

Log Date: 6/14/18 10:30

Lab Data

Duplicate? Grab? Composite?

Matrix: MS / MSD Sediment Soil Air Water

of Containers: 3

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Silty Clay Loam

USCS Texture: MH

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Structure: Weakly Moderate Strong

Other Characteristics

Rocks? Few Common Many

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Sheets? Plant Fragments?

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color:

USDA Texture:

Notes

TR? Lacustrine? Sand/gravel bed?

Field Personnel

Logged By: GDS

Data Entry By: Same as above

Sample Remarks

Internal Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16 2.5' - 2.5'

Location ID: ED-00.36-SLO1 Interval: 10 to 20 ft

Client: Acrylic Project Name: Elliott Ditch Task #: 172-362 Log Date: 6/14/17 1050

Site Name: Additional Sample

Horizon: 1 Gap: ft

Soil Color: 10YR 3/2 2nd Soil Color: 10YR 4/4

Color:

Texture: Silty clay Structure:

USDA Texture: USCS Texture: MH

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Lab Data: Duplicate? Grab? Composite?

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel: GD

Logged By: GD Data Entry By: Same as above

Internal Remarks: Redox feature

Other Characteristics:

Rocks? Few Common Many

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: %

Shells? Plant Fragments?

Rocks? <15% 15-35% 35-60% 60-90% >90%

Other: Petrochemical Sulfur Other

Sublayers? ≤0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Notes: Tip? Lacustrine? Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log Version 1.2, 1/20/16

Client: ARCADIS Location ID: ED-00.36-SL-01 Interval: 2.5 ft. to 3.0 ft.

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Additional Sampling Soil Color: 10YR 3/2 2nd Soil Color:

Task #: 172-367 Texture: silty clay Structure: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Log Date: 1/14/16 USCS Texture: CH USCS Textures: Very Fine Fine Medium Coarse Very Coarse

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil A/C Water # of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: GDI Data Entry By: Same as above

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics: Roots? Few Common Many Petrochemical Sulfur Other Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood % 0 % Shells? Plant Fragments? Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft Color: USDA Texture:

Notes: Lacustrine? Sand/gravel bed? TRP?

Sample Remarks: Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log Version 1.2, 1/20/16

Location ID: ED-00.36-S101 Interval: 3.0 ft as of 6/14/18

Client: ARC MAC Site Name: Elliott Ditch Project Name: Archaeological Sampling Task #: 172-367 Log Date: 6/14/18 - 1850 1105

Horizon: 1 Gap: ft

Soil Color: 10YR 5/3 2nd Soil Color: 10YR 4/4

Texture
USDA Texture: Silty Clay w/ gravel
USCS Texture: CH

Structure
Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other
Grade: Weak Moderate Strong

Lab Data
Duplicate? Grab? Composite?
Matrix: Sediment Soil Air Water
of Containers: 1
Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity
 Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel
Logged By: CS
Data Entry By: Same as above

Other Characteristics
Rocks? Few Common Many
Rocks? <15% 15-35% 35-60% 60-90% >90%
Odor? Petrochemical Sulfur Other
Till? Lacustrine? Sand/gravel bed?
Notes:

Wood
Wood? Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
Wood %: %
Shrubs? Plant Fragments?
Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
Color:
USDA Texture:

Sample Remarks
Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Client: ARCANE Location ID: ED-00-36-SL01 Interval: 0.05-0.15 ft AS 6/14/18

Site Name: Elliott Ditch Horizon: 1 Gap: ft

Project Name: Archaeological Sampling Soil Color: 10YR 4/4 2nd Soil Color: 10YR 5/3

Task #: 172-367 Texture: Silty clay w/ gravel Structure:

Log Date: 6/14/18

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers:

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: GS

Data Entry By: Same as above Other

USDA Texture

Granular Subangular Blocky Angular Blocky Single Grain Massive Other

USGS Texture

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 16-35% 36-60% 60-80% >80%

Odor? Petrochemical Sulfur Other

Wood? Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 % Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Notes: Lacustrine? Sand/gravel bed? Tilt? USDA Texture

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil Sediment Data Sheet

Project Name: Elkhoff Ditch Additional Sampling
 Project Number: 172-367-0006
 Field Location ID: ED-00-41-SL01
 Core Type: Auger / SS-trawl GeoProbe being
 Field Remarks:
 Northing (ft):
 Easting (ft):

Cored By: GDS
 Cored Date: 6/14/18
 Described By: GDS
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0:0 - 4:0		100%

- 0.0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.7
- 3.7 - 4.0

Reviewed By _____ Date _____

Page _____ of _____

Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.4-SL1 Interval: 0.0' ft. to 0.5' ft.

Client: ARCADIAN Project Name: ELLIOTT DITCH Task #: 172-367 0009 Log Date: 06/14/16

Horizon: 1 Gap: ft.

Soil Color: 10YR 2/2 2nd Soil Color:

Texture
 USDA Texture: Silt loam
 USCS Texture: CL ML
as per 1/16

Structure
 Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other
 Grade: Weak
 Moderate
 Strong

Other Characteristics
 Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal
 Wood %: 25 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft.
 0.05-0.1 ft.
 0.1-0.2 ft.
 0.2-0.5 ft.
 >0.5 ft.
 Color:
 USDA Texture:

Lab Data
 Duplicate? Grab? Composite?
 Matrix: Sediment
 Soil
 Air
 Water
 # of Containers:
 Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Plasticity
 Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Field Personnel
 Logged By: AS
 Date Entry By: Same as above

Notes
 T1? Lacustrine? Sand/gravel bed?

Internal Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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TETRA TECH **Soil Log** Version 1.2, 1/20/18

Client: ARCANE Location ID: ED-00-41-5L01 Interval: 0.5' to 1.0'

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Add. Inland Sampling Soil Color: 10YR 4/2 2nd Soil Color: 2.5Y 10/2

Task #: 17-562 0009 Texture: loessitic clay loam Structure: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Log Date: 06/19/16 USDA Texture: MH USCS Texture: CL Grade: Weak Moderate Strong

Lab Data Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel Logged By: CS Data Entry By: Same as above

Plasticity Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics Roots? Few Common Many Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood %: 0 % Shells? Plant Fragments?

Rocks? <15% 15-35% 35-60% 60-80% >80% Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft Color: USDA Texture:

Notes Tilt? Lacustrine? Sand/gravel bed?

Sample Remarks Internal Remarks

Redox soil

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log Version 1.2, 1/20/16

Location ID: ED-00.41-SL01 Interval: 1.0 ft to 1.5 ft

Client: Arcenic Site Name: Elliott Ditch Project Name: Additional Sampling Task #: 172-367-009 Log Date: 06/04/16

Horizon: 1 Cap: ft

Soil Color: 10YR 4/3 2nd Soil Color: 10YR 4/6

Texture: Sandy clay Structure:

USDA Texture: SC USCS Texture:

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel: Logged By: CS Date Entry By: Same as above

Other Characteristics: Rocks? Few Common Many Very Fine Fine Medium Coarse Very Coarse Fine Gravel Medium Gravel Coarse Gravel Cobbles Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood %: 0 % Shells? Plant Fragments? Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft Color: USDA Texture:

Notes: Lacustrine? Sand/gravel bed? TIP?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/18

Location ID: ED-00-H1-SL01 Interval: 1.5' in to 20'

Client: Arzenic Horizon: 1 Cap:

Site Name: Elliott Ditch Soil Color: 10YR 4/2 2nd Soil Color: 5YR 4/6

Project Name: Additional Sampling Texture: Sandy Clay Structure:

Task #: 172-367 cover USDA Texture: USCS Texture: OH

Log Date: 06/16/18 Lab Data: Priority: 2

Duplicate? Grab? Composite? Matrix: Sediment Soil AUF Water

of Containers: 2 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: CS Logged By: CS Data Entry By: Same as above

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics: Very Fine Fine Medium Coarse Very Coarse Fine Gravel Medium Gravel Coarse Gravel Cobbles Petrochemical Sulfur Other Wood? Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood % Shells? Plant Fragments? Sublayers? ≤0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft Color USDA Texture

Notes: TIP? Lacustrine? Sand/gravel bed?

Sample Remarks: Reboxomorphic

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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TETRA TECH **ED-00.41-9 Soil Log** Version 1.2, 1/20/16

Client: Arcenic Location ID: ED-00.41-9-43 Interval: 2.0' to 2.5'

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Abb. Sampling Soil Color: 10YR 4/2 2nd Soil Color: 5YR 4/6

Task #: 136-362 Texture: Sandy clay Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Log Date: 06/14/18 USCS Texture: CH Grade: Weak Moderate Strong

Lab Data: Duplicates? Grab? Composite? Matrix: Sediment Soil Air Water

of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel: Logged By: GS Data Entry By: Same as above

Other Characteristics: Rocks? Few Common Many Very Fine Fine Medium Coarse Very Coarse Fine Gravel Medium Gravel Coarse Gravel Cobbles Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood % 9 % Shell? Plant Fragments?

Odor? Petrochemical Sulfur Other Sublayers? 0-0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft Color: USDA Texture:

Notes: Tip? Lactinins? Sand/gravel bed?

Sample Remarks: Redox Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Client: Arcenic
 Site Name: Elliott Ditch
 Project Name: Anthropogenic Sampling
 Task #: 172-362-0069
 Log Date: Nov 16

Location ID: ED-00-A1-861
 Interval: 2.5' to 3.0'
 Horizon: 1
 Gap:

Soil Color: 10YR 4/2
 2nd Soil Color:

Lab Data
 Duplicate?
 Grab?
 Composite?
 Matrix: Sediment
 Soil
 AUR
 Water
 # of Containers: 1
 Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Texture
 USDA Texture: Silty clay
 USCS Texture: CH

Structure
 Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other
 Grade: Weak
 Moderate
 Strong

Other Characteristics
 Roots? Few
 Common
 Many
 Rocks? <15%
 15-35%
 35-60%
 60-90%
 >90%
 Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal
 Wood %: %
 Sheels? Plant Fragments?
 Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft
 Color:
 USDA Texture:

Plasticity
 Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Field Personnel
 Logged By: GS
 Data Entry By: Same as above

Notes
 TIP? Lacustrine? Sand/gravel bed?
 Petrochemical Sulfur Other
 Slight Moderate Strong
 Sand/gravel bed?

Internal Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/11

Location ID: ED-00-41-SL01 Interval: 5.0 ft to 3.7 ft

Client: Aconic Project Name: Elliott Ditch Task #: 176-367 Log Date: 06/14/18

Horizon: 1 Gap: n

Soil Color: 10YR 3/2 2nd Soil Color:

Texture: clay silty clay Structure:

USDA Texture: USCS Texture: CH

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: AS Data Entry By: Same as above

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Rocks? Few Common Many <15% 15-35% 35-60% 60-90% >90%

Other Characteristics: Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood % 0 % Plant Fragments? Sheets? Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Odor? Petrochemical Sulfur Other Notes: Lactime? Sand/gravel bed? TWP? USDA Texture:

Sample Remarks: Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-44-SLO1 Interval: 3.7 ft to 4.0 ft

Client: Arcenic Project Name: Elliott Ditch Task #: 172-367 Log Date: 6/14/16

Site Name: AD Summary

Horizon: 1 Gap: ft

Soil Color: 10YR 3/2 2nd Soil Color:

Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Silty clay

USCS Texture: CH

Structure Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Grade: Weak Moderate Strong

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: GS

Data Entry By: Same as above

Notes

TIR? Lacustrine? Sand/gravel bed?

Internal Remarks

Sample Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil
Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367.0006
 Field Location ID: ED-00.44-SL01
 Core Type:
 Field Remarks:
 Northing (ft):
 Easting (ft):

Cored By: GDS
 Cored Date: 6/14/18
 Described By: GDS
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
4'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 4.0		100 %

- 0.0' - 0.5'
- 0.5 - 1.0'
- 1.0 - 1.5'
- 1.5 - 1.8'
- 1.8 - 2.0'
- 2.0 - 2.5'
- 2.5 - 3.0'
- 3.0 - 3.5'
- 3.5 - 4.0'

Reviewed By _____ Date _____

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Soil Log Version 1.2, 1/20/16

Location ID: ED-00.44-SLO Interval: 0.0' n to 0.5'

Client: ATRONIC

Site Name: Elliott Ditch

Project Name: Additional Sampling

Task #: 172-36.2

Log Date: 6/14/18

Horizon: 1 Gap: ft

Soil Color: 5/2 2nd Soil Color: 3/2

Texture: Gravel Structure:

USDA Texture: GW USCS Texture:

Plasticity:

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: AS Date Entry By: Same as above

Other Characteristics: Rocks? Few Common Many Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood %: 0 % Shells? Flint Fragments? Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft Color: USDA Texture:

Notes: TIP? Lacustrine? Sand/gravel bed?

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2.12/11/11

Client: Arconic
 Location ID: ED-00.44-SL01
 Interval: 0.5 ft to 1.0 ft
 Site Name: Elliott Ditch
 Project Name: 172-367 Additional Sampling
 Task #: 0809
 Log Date: 6/14/16 11:27
 Horizon: 1
 Gap: ft

Soil Color: 10YR 6/2

2nd Soil Color: 10YR 5/2

Color:

Texture: Grnd

USDA Texture:

USCS Texture: GM

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Rocks? Few Common Many

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? ≤0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color:

USDA Texture:

Field Personnel

Logged By: G.D.S.

Data Entry By: Same as above

Notes

Lacustrine? Sand/gravel bed?

7/1P?

Internal Remarks

Sample Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log

Version 1.2, 1/20/11

Client: ARCANE Location ID: ED-00.44-SLO Interval: 1.0 ft to 1.5 ft

Site Name: Elliott Ditch Horizon: 1 ft Gap: ft

Project Name: Additional Samples Soil Color: 10YR 6/2 2nd Soil Color: 10YR 5/2

Task #: 122-367 Color:

Log Date: 6/14/16 11:27

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Gravel

USCS Texture: GM

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Structure:

Grade: Weak Moderate Strong

Other Characteristics

Roots? Very Fine Fine Medium Coarse Very Coarse

Rocks? Few Common Many

Odor? Petrochemical Sulfur Other

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.3 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: GDS

Data Entry By: Same as above

Notes

TIIP? Lacustrine? Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.44-SL01 Interval: 1.5 ft to 1.8 ft

Client: Arconic Project Name: Elliott Ditch Task #: 172-367 Log Date: 6/14/13 - 11/14

Site Name: Elliott Ditch

Project Name: Additional Sampling

Task #: 172-367

Log Date: 6/14/13 - 11/14

Horizon: 1 Gap:

Soil Color: 10YR 3/2 2nd Soil Color: 10YR 5/4 Color:

Texture: Silty clay Structure: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

USDA Texture: Very Fine Fine Medium Coarse Very Coarse

USCS Texture: CH

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 2 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: Data Entry By: Same as above

Other Characteristics: Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood %: % Shells? Plant Fragments? Sublayers? ≤0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.6 ft >0.5 ft Color: USDA Texture:

Rocks? Few Common Many Petrochemical: Slight Moderate Strong Sulfur: Other: Notes: Lactinme? Sand/gravel bed? Tip?

Rocks? <15% 15-35% 35-60% 60-80% >80% Odor?

Sample Remarks:

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.44 - SLO1 Interval: 1.8 ft to 2.0 ft

Client: Arctic Project Name: Elliott Ditch Site Name: Elliott Ditch

Task #: 197-307 Log Date: 6/14/16 - 1140

Lab Data

Duplicates? Grab? Composite?

Matrix: Sediment Soil Air Water

% of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: AS Data Entry By: Same as above

Soil Color

Horizon: 1 Gap: in

Soil Color: 10YR 5/4 2nd Soil Color: 10YR 5/1

Texture

USDA Texture: Sandy loam clay

USCS Texture: CH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Odor? Petrochemical Sulfur Other

Wood? Wood Black Wood Blurred Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood % 0 % Shells? Plant Fragments?

Sublayers? ≤0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Notes

Tip? Lacustrine? Sand/gravel bed?

USDA Texture:

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Internal Remarks

Sample Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Location ID: ED-00-44-Sk1 Interval: 2.0' to 2.5' ft

Client: Arcenic Site Name: Elliott Ditch Project Name: Additional Sampling Task #: 172-367 Log Date: 6/14/18-1143

Horizon: 1 Gap:

Soil Color: 10YR 5/4 2nd Soil Color: 10YR 3/1

Texture: Sandy loam clay Structure:

USDA Texture: USCS Texture: CH

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: GDS Data Entry By: Same as above

Other Characteristics: Roots? Few Common Many Rocks? <15% 15-35% 35-60% 60-80% >80% Very Fine Fine Medium Coarse Very Coarse Fine Gravel Medium Gravel Coarse Gravel Cobbles Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood % % Plant Fragments? Shells? Sublayers? ≤0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft Color USDA Texture

Notes: Tip? Lacustrine? Sand/gravel bed?

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/2/16

Location ID: ED-00.44-SLO1 Interval: 2.5 ft to 3.0 ft

Client: ARRAZ Site Name: Elliott Ditch Project Name: Additional Sampling Task #: 172-376 0009 Log Date: 6/14/16 - 1148

Horizon: 1 Gap:

Soil Color: 10YR 4/4 2nd Soil Color: 10YR 3/1

Texture
 Silty clay w/ sand
 CH

Structure
 Type: Granular
 Subangular Blocky
 Angular Blocky
 Single Grain
 Massive
 Other
 Grade: Weak
 Moderate
 Strong

USDA Texture
 Clay
 Silty Clay
 Silty Clay Loam
 Silty Loam
 Loam
 Silty Loam
 Silty Sand
 Sand
 Very Fine Sand
 Fine Sand
 Medium Sand
 Coarse Sand
 Very Coarse Sand
 Very Fine Gravel
 Fine Gravel
 Medium Gravel
 Coarse Gravel
 Cobbles
 Boulders

USCS Texture
 G, O, A, U, M, CL, OL, CH, MH, MU, SW, SM, SC, ML, MC, MS, SW, SM, SC, ML, MC, MS, SW, SM, SC, ML, MC, MS

Plasticity
 Non-plastic
 Slightly Plastic
 Moderately Plastic
 Very Plastic

Lab Data
 Duplicate? Grab? Composite?
 Matrix: Sediment
 Soil
 Air
 Water
 # of Containers: 1
 Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Field Personnel
 Logged By: GDS
 Data Entry By: Same as above

Other Characteristics
 Roots? Few
 Common
 Many
 Ranks? <15%
 15-35%
 35-60%
 60-80%
 >80%
 Odor? Petrochemical
 Sulfur
 Other
 Wood? Wood
 Black Wood
 Burned Wood
 Sawdust
 Wood Chips
 Wood Pulp
 Charcoal
 Wood %: 0 %
 Shells? Plant Fragments?
 Sublayers? <0.05 ft
 0.05-0.1 ft
 0.1-0.2 ft
 0.2-0.5 ft
 >0.5 ft
 Color: USDA Texture

Notes
 Tip? Lacustrine? Sand/gravel bed?

Internal Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log

Version 1.2, 1/20/11

Location ID: ED-00-04-SLO1 Interval: 3.0 ft to 3.5 ft

Client: ARCAMIC Site Name: Elliott Ditch Project Name: Advanced Sampling Task #: 172-367 Log Date: 6/14/18 151

Horizon: 1 Gap:

Soil Color: 10YR 4/1 2nd Soil Color: 10YR 5/3

Texture: Silty Clay w/ sand Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

USDA Texture: Very Fine Fine Medium Coarse Very Coarse Fine Gravel Medium Gravel Coarse Gravel Cobbles

USCS Texture: CH

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment Soil Air Water # of Containers: 1 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: ADS Date Entry By: Same as above

Other Characteristics: Rocks? Few Common Many <15% 15-35% 35-60% 60-80% >80%

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Wood % % Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture

Notes: Tip? Lacustrine? Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/11

Location ID: ED-OC.44-SLO1 Interval: 3.5 ft to 4.0 ft

Client: ARONIC Project Name: ELLIOTT DITCH Task #: 172-367 Log Date: 6/14/16 1161

Site Name: ELLIOTT DITCH

Project Name: ADDITIONAL SAMPLER

Task #: 172-367

Log Date: 6/14/16 1161

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: _____

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: GDS

Data Entry By: Same as above

Soil Color

Soil Color: 10YR 5/2 2nd Soil Color: 10YR 3/2

Horizon: 1 Cap: _____

Texture

USDA Texture: Silty Clay

USCS Texture: CH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other _____

Grade: Weak Moderate Strong

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Odor? Petrochemical Sulfur Other _____

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Sheets? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: _____

USDA Texture: _____

Notes

TriP? Lacustrine? Sand/gravel bed?

Sample Remarks

Internal Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367.0006
 Field Location ID: ED-00.51-SLOG
 Core Type: Auger / hand trowel
 Field Remarks:
 Northing: (ft)
 Easting: (ft)

Cored By: GDS
 Cored Date: 6/14/18
 Described By: GDS
 Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
2.0					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
1.0 - 2.0		100%

1.0 - 1.5
1.5 - 2.0

Reviewed By _____ Date _____

EQ

Soil Log Version 1.2, 1/22/16 Page 1 of 1

Client: Arcade
 Site Name: Elliott Ditch
 Project Name: Additional Sampling
 Task #: 172-367
 Log Date: 6/16/16

Location ID: ED-00.51-SL06 Interval: 1.0 # to 1.5
 Horizon: 1 Gap:

Soil Color: 2.5YR 3/1 2nd Soil Color:

Texture: Silty clay loam

USDA Texture: Very Fine Fine Medium Coarse Very Coarse
 Fine Gravel Medium Gravel Coarse Gravel Cobbles

USCS Texture: Silty Clayey Silty clayey Clayey silty Silty Clayey Silty clay Clay Silty clay loam Clay loam Silty loam Loam Silty loam Loam Silty sand Sand Silty sand Sand

Structure: Single Grain Subangular Blocky Angular Blocky Subangular Angular Massive Other:

Grade: Weak Moderate Strong

Rocks? Few Common Many
 Rocker? <15% 15-35% 35-50% 50-80% >80%

Other Characteristics: Wood? Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal Shavings? Plant Materials?

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel: Logged By: ADS Data Entry By: Same as above

Lab Data: Duplicate? Grab? Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 2
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Notes: Lacustrine? Semi-gravel bed?

Internal Remarks: Site has signs of human impact (Camp)

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2, 1/20/16

Location ID: ED-00.51-SLO6 Interval: 1.5 # to 20.0

Client: AZONIC Site Name: Elliott Ditch Project Name: Asst. Sampling Task #: 172-367 Log Date: 6/16/16

Horizon: 1 Gap:

Soil Color: 10YR 5/3 and Soil Color: 10YR 3/2

Texture: Silty clay loam Structure: MA

USDA Texture: Silty clay loam USCS Texture: MH

Plasticity: Non-plastic, Slightly Plastic, Moderately Plastic, Very Plastic

Lab Data: Duplicate? Grab? Composite? Matrix: Sediment, Soil, Air, Water

of Containers: 2 US 1/2 6/16/16

Field Personnel: Logged By: GDS Data Entry By: Same as above

Other Characteristics: Fines? Very Fine, Fine, Medium, Coarse, Very Coarse. Flocks? <15%, 15-35%, 35-60%, 60-90%, >90%. Rhyolite? Andesite? Granite? Gneiss? Schist? Siltstone? Sandstone? Limestone? Other?

Wood? Wood, Black Wood, Burned Wood, Sawdust, Wood Chips, Wood Pulp, Charcoal. Wood %: 0 %

Shells? Plant Fragments? Substrata? #0.05 # 0.05, #0.075 # 0.1, #0.15 # 0.2, #0.3 # 0.5, #0.6 # 0.5. JSDA Texture:

Notes: Limestone? Sandstone? Location in area anthropomorphic impacted area (Camp)

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil
Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
Project Number: 172-367.0006
Field Location ID: ED-00.82-SL03
Core Type: Auger / hand trowel
Field Remarks:
Northing (ft):
Easting (ft):

Cored By: GDS
Cored Date: 6/14/18
Described By: GDS
Described Date: 6/14/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
2.0					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
1.5 - 2.0		100%

Reviewed By _____ Date _____

Page _____ of _____

Soil Log Version 1.2, 1/20/16

Client: ATLANTEC Location ID: ED-08.82-SL03 Interval: 1.5 ft to 2.0 ft

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Additional Sampling Soil Color: 10YR 3/2 2nd Soil Color: N/A

Task #: 172-367 Log Date: 6/15/18

Lab Data

Duplicate? Grab? Composite?

Mixing: Sediment Soil Air Water

of Containers: 1 Priority: Urgent (1) Standard (2) As Ate (3) As Needed (4)

Texture

USDA Texture: Very Fine Sandy loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: GD

Data Entry By: Same as above

Internal Remarks

Sample Remarks: Last recoverable depth. Recovery @ 2.0'

Notes

Lacustrine? Sand/gravel bed?

Soil Color

Color: 10YR 3/2

2nd Soil Color: N/A

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: GD

Data Entry By: Same as above

Internal Remarks

Sample Remarks: Last recoverable depth. Recovery @ 2.0'

Notes

Lacustrine? Sand/gravel bed?

Soil Color

Color: 10YR 3/2

2nd Soil Color: N/A

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: GD

Data Entry By: Same as above

Internal Remarks

Sample Remarks: Last recoverable depth. Recovery @ 2.0'

Notes

Lacustrine? Sand/gravel bed?

Soil Color

Color: 10YR 3/2

2nd Soil Color: N/A

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: GD

Data Entry By: Same as above

Internal Remarks

Sample Remarks: Last recoverable depth. Recovery @ 2.0'

Notes

Lacustrine? Sand/gravel bed?

Soil Color

Color: 10YR 3/2

2nd Soil Color: N/A

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: GD

Data Entry By: Same as above

Internal Remarks

Sample Remarks: Last recoverable depth. Recovery @ 2.0'

Notes

Lacustrine? Sand/gravel bed?

Soil Color

Color: 10YR 3/2

2nd Soil Color: N/A

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: GD

Data Entry By: Same as above

Internal Remarks

Sample Remarks: Last recoverable depth. Recovery @ 2.0'

Notes

Lacustrine? Sand/gravel bed?

Soil Color

Color: 10YR 3/2

2nd Soil Color: N/A

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: GD

Data Entry By: Same as above

Internal Remarks

Sample Remarks: Last recoverable depth. Recovery @ 2.0'

Notes

Lacustrine? Sand/gravel bed?

Soil Color

Color: 10YR 3/2

2nd Soil Color: N/A

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: GD

Data Entry By: Same as above

Internal Remarks

Sample Remarks: Last recoverable depth. Recovery @ 2.0'

Notes

Lacustrine? Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367.0006
 Field Location ID: ED-01.14-SLO1
 Core Type: Auger (hand) trowel
 Field Remarks:
 Northing (ft):
 Easting (ft):

Cored By: GOS
 Cored Date: 6/15/18
 Described By: GOS
 Described Date: 6/15/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
2.0'					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.5 - 2.0		100%

0.5' - 1.0'
 1.0' - 1.5'
 1.5' - 2.0'

Reviewed By _____ Date _____

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Client: Arizona
 Site Name: Elliott Ditch
 Project Name: Additional Sampling
 Task #: 102-367
 Log Date: 6/15/16

Location ID: ED-01-14-SLO1 Interval: 0.5 ft to 1.0 ft

Horizon: 1 Gap: ft

Soil Color: 10YR 3/4 ft
 Color: ft

USDA Texture: Silty clay loam
 USCS Texture: MH

Texture Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other
 Structure Grade: Weak Moderate Strong

Lab Data: Duplicate? Grab? Composite?
 Matrix: Sediment Soil Air Water
 # of Containers: 1
 Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: Data Entry By: Same as above

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Rocks? Few Common Many
 Rocks? <15% 15-35% 35-60% 60-80% >80%

Other Characteristics: Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal
 Wood %: 45 %
 Shell? Plant Fragments?
 Substrains? <4.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft
 Color: USDA Texture:

Notes: MIP? Lacustrine? Sand/gravel bed?

Sample Remarks:
 Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page _____ of _____

Soil Log

Version 1.2, 1/20/16

Location ID: ED-01.14-SLO1 Interval: 1-0 ft to 1.5 ft

Client: Arctic Project Name: Elliott Ditch Task #: 12-3127 Log Date: 6/15/18

Site Name: Elliott Ditch

Project Name: Additional Sampling

Task #: 12-3127

Log Date: 6/15/18

Horizon: 1 Gap:

Soil Color: 10YR 3/3 2nd Soil Color: N/A

Texture: Silty clay loam Structure: MA

USDA Texture: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

JSCS Texture: MA

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Lab Data: Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers:

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: ADS Data Entry By: Same as above

Other Char. Characteristics: Very Fine Fine Medium Coarse Very Coarse

Rocks? Few Common Many

Rocks: <15% 15-35% 35-60% 60-90% >90%

Color: Petrochemical Sulfur Other

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Sheet? Plant Fragments?

Sublayers? Substratum Color

USDA Texture: 0.05-0.1A 0.1-0.2R 0.2-0.5R >0.5F

Notes: Laminar? Sandily over bed? Tip?

Sample Remarks:

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

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Soil Log

Version 1.2 (1/2010)

Location ID: ED-01.14-SL01-15-20 Interval: 1.5 ft to 2.0 ft

Client: Arconic Project Name: Ballast Ditch Task #: 172-367 Log Date: 6/15/16

Site Name: Ballast Ditch Project Name: Ballast Ditch Task #: 172-367 Log Date: 6/15/16

Horizon: 1 Gap: 2.1 ft

Soil Color: 2/3/10/6 2nd Soil Color:

Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Silty Clay loam

USCS Texture: MH

Structure Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Odor? Petrochemical Sulfur Other

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel: GS Same as above

Logged By: GS Data Entry By:

Sample Remarks: Internal Remarks:

Notes: Lacustrine? Sand/gravel bed? Tip?

Wood? Wood Black Wood Burned Wood Sawdust Wood Chip Wood Pulp Charcoal

Wood %: 0 %

Shells? Shell Fragments?

Silt/clay? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

S₁₂₁ Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367-0009
 Field Location ID: ED-01.14-8604
 Core Type: Auger - 1 hand trowel
 Field Remarks:
 Northing (N):
 Easting (E):

Cored By: GDS
 Cored Date: 6/15/18
 Described By: GDS
 Described Date: 6/15/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
2.0					
1.8					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 1.8		90

0.0 - 0.5
 0.5 - 1.0
 1.0 - 1.5
~~1.5 - 2.0~~
 1.5 - 1.8

Reviewed By _____ Date _____

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Client: ARRANIC Location ID: ED-0114-SL04 Interval: 0.0 ft to 0.5 ft

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Additional Sampling Soil Color: 2.5YR 7/2

Task #: 172-367-0009 2nd Soil Color:

Log Date: 6/15/19

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Fine Sandy loam

USCS Texture: SMCL

Other: W 0.15, 0.075

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Field Personnel

Logged By: CB

Date Entry By: Same as above

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Other? Petrochemical Sulfur Other

Wood? Wharf Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: %

Spalls? Plain/Fragile/Asp?

Sublayers? 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color:

JSDA Texture:

Notes

70%? Leaching? Same/Gravel Box?

Internal Remarks

large stones common

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Client: ATRONIC Location ID: ED-0114-SLO4 Interval: 0.5 # to 1.0 n

Site Name: Elliott Ditch Horizon: 1 Gap:

Project Name: Additional Samples Soil Color: 10YR 3/6

Task #: 172-367 2nd Soil Color:

Log Date: 6/15/16 Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Fine Sandy loam

USCS Texture: 4/ organics

Other Characteristics:

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Field Personnel

Logged By: GDJ

Date Entry By: Same as above

Internal Remarks

organic material

Notes

Lacustrine? Sand/gravel bed?

Other Characteristics

Wood? Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood? % >5

Shell? Plant Fragments?

Subsides?

Color:

USDA Texture:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Client: Arconic
 Site Name: Elliott Ditch
 Project Name: Addressed Sampling
 Task #: 172-267
 Log Date: 6/15/16

Location ID: ED-01.14-04
 Interval: 1.0 ft to 1.5 ft
 Horizon: 1
 Gap:

Soil Color: 10YR 9/2

2nd Soil Color: 10YR 5/1

Texture: Fine Sand & loam

USDA Texture: ML

USCS Texture: ML

Structure Type: Granular Subangular Blocky Angular Blocky Single Grain Massed Other

Grade: Weak Moderate Strong

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other

Other Characteristics: Very Fine Fine Medium Coarse Very Coarse

Wood? Wood Black Wood Barked Wood Sawdust Wood Chips Wood Pulp Charcoal

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture

Lab Data: Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 2

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: AS Data Entry By: Same as above

Internal Remarks: Lacustrine? Sandy/gravel bed?

Notes: TYP

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page _____ of _____

Soil Log

Version 1.2, 1/2018

Client: ARMAAC
 Site Name: Elliott Ditch
 Project Name: 172-367 Additional Sample
 Task #: 172-767
 Log Date: 6/15/16

Location ID: ED-01-14-SL04 Interval: 1.5' n to 1.8' n
 Date: 05/06/16
 Horizon: 1 Gap: _____ n

Soil Color: 10YR 4/2 2nd Soil Color: 10YR 5/4

Color: _____

Texture: Sandy Clay Loam

USDA Texture: _____
USCS Texture: CH

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment
 Soil
 Air
 Water

of Containers: _____

Priority: Urgent (1)
 Standard (2)
 As Able (3)
 As Needed (4)

Structure

Type: Greenish Subangular Blocky Angular Blocky Single Grain Massive Other: _____

Grade: Weak Moderate Strong

Field Personnel

Logged By: GOS
Data Entry By: Same as above

Other Characteristics

Rocks? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Other? Petrochemical Sulfid Other: _____

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Plant Fragments?

Substrates? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: _____
USDA Texture: _____

Internal Remarks

Sample Remarks: 05-061516
1.5'-2.0' in H₂O tank

Notes

Turn? Laminar? Sharp/Gravel/Bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

~~Soil~~ Sediment Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367-0006
 Field Location ID: ED-01.14-SLOS
 Core Type: Auger / trowel
 Field Remarks:
 Northing (ft):
 Easting (ft):

Cored By: GDS
 Cored Date: 6/15/16
 Described By: CS
 Described Date: 6/15/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
2.0					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 2.0		100
0.0 - 0.5		
0.5 - 1.0		
1.0 - 1.5		
1.5 - 2.0		

Reviewed By _____ Date _____

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Location ID: ED-01.14 - SLOS Interval: 0.0 ft to 0.5 ft

Client: Arce@v.vic Site Name: Elliott Ditch Project Name: ADD Sampling Task #: 172767-0009 Log Date: 6/15/18

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: GDJ Data Entry By: Same as above

Soil Color

Soil Color: 10YR 4/4 ? No. Soil Color:

Horizon: 1 Gap:

Texture

USDA Texture: Silty clay loam

USCS Texture: CH

Structure

Type	Grade
<input type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input checked="" type="checkbox"/> Massive	
<input type="checkbox"/> Other	

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-90% >90%

Color? Petro-mechanical Sulfur Other

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Wood Black Wood Burned/Worn Sawdust Wood Chips Wood Rub Charcoal

Wood %: 0

Shells? Plant Fragments?

Sublayers?

Color:

USDA Texture:

Notes

Till? Lacustrine? Sand/gravel band?

Sample Remarks

organic

Internal Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Location ID: ED-01.14-SLOS Interval: 0.5 ft to 1.0 ft

Client: ARCONIC

Site Name: Elliott Ditch

Project Name: ADD. Sampling

Task #: 172-367

Log Date: 6/15/18

Horizon: 10YR 4/4 NA
US Colors

Gap: ft

Soil Color: 10YR 4/4

2nd Soil Color:

Color:

Lab Data

Duplicate?

Grab?

Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: S. Hy clay

USCS Texture: CH

Structure

Type	Grade
<input checked="" type="checkbox"/> Granular	<input type="checkbox"/> Weak
<input type="checkbox"/> Subangular Blocky	<input type="checkbox"/> Moderate
<input type="checkbox"/> Angular Blocky	<input type="checkbox"/> Strong
<input type="checkbox"/> Single Grain	
<input checked="" type="checkbox"/> Massives	
<input type="checkbox"/> Other	

Other Characteristics

Rough? Very Fine Fine Medium Coarse Very Coarse

Rocks? <15% 15-35% 35-60% 60-90% >90%

Odor? Petrochemical Sulfur Other

Wood? Wood Bark/Wood Burned Wood Salvage Wood Chips Wood Pulp Charcoal

Shells? Plant Fragments?

Stippling?

Color:

Sucmers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Plasticity

<input type="checkbox"/> Non-plastic
<input type="checkbox"/> Slightly Plastic
<input checked="" type="checkbox"/> Moderately Plastic
<input type="checkbox"/> Very Plastic

Field Personnel

Logged By: GDS

Data Entry By: Same as above

Notes

TIP? Lacustrine? Sand/gravel bed?

Internal Remarks

Sample Remarks

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log

Version 1.2, 1/20/16

Location ID: ED-01.4-SLOS Interval: 1.0 # to 15

Client: ARCENIC

Site Name: Elliott Ditch

Project Name: ARCENIC

Task #: 172-3427

Log Date: 6/15/16

Horizon: 1 Gap:

Soil Color: 10YR 5/4 2nd Soil Color:

Color:

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Afile (3) As Needed (4)

Field Personnel

Logged By: WDS

Data Entry By: Same as above

Texture

USDA Texture: Silty clay loam

I/SOS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Other Characteristics

Rocks? Few Common Many

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Black Wood Bleached Wood Sawdust Wood Chips Wood Stubs Charcoal

Wood %: 0

Spalls? Plant Fragment?

Sublayers?

Color:

USDA Texture:

Notes

Notes: Limestone? Sand/Gravel bed?

Internal Remarks

Sample Remarks:

Internal Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log Version 1.2, 1/20/16

Location ID: ED-014-SLOS Interval: 1.5 ft to 2.0 ft

Client: Arcane Site Name: Elliott Ditch Project Name: Add. Sampling Task #: 172-367-009 Log Date: 6/15/18

Horizon: 1 Gap: ft

Soil Color: 10YR 5/4 2nd Soil Color:

Texture

USDA Texture: Silty clay USCS Texture: CH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Masses/Flakes Other:

Grade: Weak Moderate Strong

Lab Data

Duplicate? Grab? Composite?

Matrix: Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel

Logged By: GOS Data Entry By: Same as above

Plasticity

Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Wood? Wood Black Wood Rippled Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Notes

Limestone? Sand/gravel bed?

Internal Remarks

Sample Remarks:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Soil ~~Sediment~~ Data Sheet

Project Name: Elliott Ditch Additional Sampling
 Project Number: 172-367.0006
 Field Location ID: ED-01.14-SLOG
 Core Type: Auger / trowel
 Field Remarks:
 Northing (N):
 Easting (E):

Cored By: GDS
 Cored Date: 6/15/18
 Described By: GDS
 Described Date: 6/15/18

Sample Depth	Layer	Priority	Physical Description	Sample Remarks	Internal Sample Remarks
1.5					

Core Interval (ft)	Measured Sediment in Core (ft)	% Recovery
0.0 - 1.5		100%

0.0 - 0.5
 0.5 - 1.0
 1.0 - 1.5

Reviewed By _____ Date _____

Page ____ of ____

Version 1.2, 1/20/16

TETRA TECH

Client: ARCADIS

Site Name: Elliott Ditch

Project Name: ED - 01.14 - 06SE

Task #: 172-367

Log Date: 6/13/18

Location ID: ED-01.14-06SE

Interval: 0.0 ft to 0.5 ft

Horizon: 1

Gap: 0.0-0.1

Lab Data

Duplicates?

Grib?

Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Color

Soil Color: 10YR 5/2

2nd Soil Color: 7.5YR

Texture

USDA Texture: Silty clay loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weak Moderate Strong

Other Characteristics

Roots? Few Common Abundant

Rocks? <15% 15-35% 35-60% 60-90% >90%

Plasticity: Non-Plastic Slightly Plastic Moderately Plastic Very Plastic

Wood: Bark Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Plant Fragments?

Shells?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Gravel:

USDA Texture:

Field Personnel

Logged By: Greg Schuch

Date Entry By: Same as above

Sample Remarks

Internal Remarks

Notes

Excavated? Sand/gravel bed?

Tip?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log Version 1.2, 1/20/16

Location ID: ED-01.14-02.06 Interval: 0.5' ft to 1.0 ft

Client: Arcenic Project Name: Elliott Ditch Task #: 172-367-0009 Log Date: 06/13/16

Horizon: 1 Color: 10YR 4/3 2nd Soil Color:

Soil Color: 10YR 4/3

Lab Data

Duplicate? Grab? Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Silty clay loam

USCS Texture: MH

Types: Granular Subangular Blocky Angular Blocky Single Grain Massive Other:

Structure: Grade: Weak Moderate Strong

Other Characteristics

Roots? Few Common Many

Rocks? 1-5% 5-35% 35-60% 60-80% >80%

Odor? Petrochemical Sulfur Other

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? 0-0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: Greg Selbach

Data Entry By: Same as above

Notes

Tip? Lacustrine? Sand/gravel bed?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log Version 1.2, 1/20/18

ED-01.14-8106
ED-00.1

Client: ARCANE

Site Name: Elliott Ditch

Project Name: Additional Sampling

Task #: 172-367-007

Log Date: 06/21/18

Location ID: ED-01.14-SLOB 6

Interval: 1.0' ft to 1.5' ft

Horizon: 1

Gap: ft

Soil Color: 10YR 3/1h 2nd Soil Color:

Color:

Lab Data

Duplicate?

Grab?

Composite?

Matrix: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Texture

USDA Texture: Silty Clay loam

USCS Texture: MH

Structure

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Grade: Weakly Moderately Strong

Other Characteristics

Roots? Few Common Many

Rocks? <15% 15-35% 35-60% 60-80% >80%

Odor? Petrochemical Sulfur Other

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Wood? Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pulp Charcoal

Wood %: 0 %

Shells? Plant Fragments?

Sublayers? ≤0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Color: USDA Texture:

Field Personnel

Logged By: Greg Schmitt

Data Entry By: Same as above

Sample Remarks

Internal Remarks

Notes

Lacustrine? Sand/gravel bed?

7/1?

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

Page 1 of 1

Soil Log Version 1.2 (4/2016)

Location ID: ED-01.14-SLO6-T Interval: 1.5' ft to 2.0' ft

Client: Arconic

Site Name: Elliott Ditch

Project Name: Additional Sampling

Task #: 172-067-0001

Log Date: 06/13/16

Horizon: 1 ft

Gap: ft

Soil Color: 10YR 3/2 2nd Soil Color: NA

Color

Texture: Silty Clay loam

USDA Texture: MH

USCS Texture: MH

Structure:

Grade:

Weak? Moderate? Strong?

Type: Granular Subangular Blocky Angular Blocky Single Grain Massive Other

Rocks? Few Common Many

Plasticity: Non-plastic Slightly Plastic Moderately Plastic Very Plastic

Other Characteristics: Wood Black Wood Burned Wood Sawdust Wood Chips Wood Pub Charcoal Wood % 0 %

Shells? Plant Fragments?

Sublayers? <0.05 ft 0.05-0.1 ft 0.1-0.2 ft 0.2-0.5 ft >0.5 ft

Notes: Thin? Lacustrine? Sand/gravel bed?

Lab Data: Duplicate? Grab? Composite?

Main: Sediment Soil Air Water

of Containers: 1

Priority: Urgent (1) Standard (2) As Able (3) As Needed (4)

Field Personnel: Logged By: CS Date Entry By: Same as above

Sample Remarks:

Internal Remarks:

Odor? Petrochemical Sulfur Other

Color:

USDA Texture:

Figure 3. Sample paper soil logging form. Paper forms will be used only if the electronic data logging system is not available.

APPENDIX V
LABORATORY ANALYTICAL REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-87591-1

Client Project/Site: Arconic, Inc. - Elliott Ditch

For:

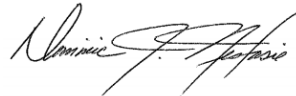
Civil & Environmental Consultants Inc

2704 Cherokee Farm Way

Suite 101

Knoxville, Tennessee 37920

Attn: Matt Bruck



Authorized for release by:

11/15/2017 2:36:59 PM

Dominic Nestasie, Manager of Project Management

(412)963-7058

dominic.nestasie@testamericainc.com

LINKS

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Have a Question?



Visit us at:

www.testamericainc.com

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.

- 1
- 2
- 3
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- 10
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- 12
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Definitions/Glossary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Qualifiers

GC Semi 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.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Job ID: 240-87591-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-87591-1

Receipt:

The samples were received on 11/7/2017 at 5:00 PM; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 4 coolers at time of receipt were 0.4° C, 1.0° C, 1.4° C and 5.0° C.

PCB's:

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.82-SOL04-(0.13-0.5) (240-87591-48), ED-0060.SL01-(0-0.19') (240-87591-53), ED-00.47-SL04-(0-0.80') (240-87591-60), ED-00.47-SL03-(0-0.77') (240-87591-61), ED-00.47-SL03-(0-0.77')-FD (240-87591-62) and ED-00.47-SL01-(0-0.5') (240-87591-63).

The following sample was diluted due to abundance of target analytes: ED-00.51-SL03-(0-0.5') (240-87591-55). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

The %RPD between the primary and confirmation column exceeded 40% for Aroclor 1248 for the following sample: ED-00.60-SL03-(0-0.89') (240-87591-51). Due to sample matrix, the lower value has been reported and qualified in accordance with the laboratory's SOP.

The %RPD between the primary and confirmation column exceeded 40% for 1254 for the following samples: ED-00.25-SL04-(0-0.5') (240-87591-73) and ED-00.25-SL04-(0.5-1.0') (240-87591-74). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Two surrogates are used for this analysis. The laboratory's SOP allows one 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: ED-00.25-SL03-(0-0.5') (240-87591-77), ED-00.25-SL03-(0.5-1.0') (240-87591-78), ED-00.08-SL04-(0.67-0.86) (240-87591-88) and (MB 240-302635/19-A). These results have been reported and qualified.

The following samples were diluted due to the abundance of target analytes: ED-00.25-SL02-(0-0.5') (240-87591-79), ED-00.25-SL02-(0-0.5')-FD (240-87591-80), ED-00.25-SL02-(1.0-1.5') (240-87591-82), ED-00.08-SL03-(0-0.5') (240-87591-83), ED-00.08-SL03-(0.5-0.97') (240-87591-84), ED-00.08-SL03-(0.97-1.47') (240-87591-85), ED-00.08-SL03-(1.5-2.0') (240-87591-86), (240-87591-B-85-B MS) and (240-87591-B-85-C MSD)

The following samples were diluted to bring the concentration of target analytes within the calibration range: ED-00.25-SL02-(0-0.5') (240-87591-79), ED-00.25-SL02-(0-0.5')-FD (240-87591-80), ED-00.25-SL02-(1.0-1.5') (240-87591-82), ED-00.08-SL03-(0-0.5') (240-87591-83), ED-00.08-SL03-(0.5-0.97') (240-87591-84), ED-00.08-SL03-(0.97-1.47') (240-87591-85), ED-00.08-SL03-(1.5-2.0') (240-87591-86), (240-87591-B-85-B MS) and (240-87591-B-85-C MSD). Elevated reporting limits (RLs) are provided.

The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-00.25-SL02-(0-0.5') (240-87591-79), ED-00.25-SL02-(0-0.5')-FD (240-87591-80), ED-00.25-SL02-(0.5-1.0') (240-87591-81), ED-00.25-SL02-(1.0-1.5') (240-87591-82), ED-00.08-SL03-(0-0.5') (240-87591-83), ED-00.08-SL03-(0.5-0.97') (240-87591-84), ED-00.08-SL03-(0.97-1.47') (240-87591-85) and ED-00.08-SL03-(1.5-2.0') (240-87591-86). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The matrix spike duplicate (MSD) recoveries for preparation batch 240-302635 and analytical batch 240-302905 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-00.82-SL01-(0-0.22') (240-87591-125) and ED-00.82-SL01-(0.22-0.5') (240-87591-126). The samples have been quantified and reported using the best overall Aroclor/standard

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pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The Internal standard (ISTD) response for the following sample exceeded the control limit on Column CLP-2 0.53mm ID: (CCVIS 240-303214/28). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

The %RPD between the primary and confirmation column exceeded 40% for 1254 for the following samples: ED-00.60-SD02-(2.39-2.63') (240-87591-25), ED-00.72-SD03-(2.06-2.40') (240-87591-28) and ED-00.72-SD03-(2.40-3.50') (240-87591-29). The lower value has been reported and qualified in accordance with the laboratory's SOP.

The %RPD between the primary and confirmation column exceeded 40% for 1260 for the following sample: ED.01.03-SD02-(0-0.98) (240-87591-36). The lower value has been reported and qualified in accordance with the laboratory's SOP.

The Decachlorobiphenyl surrogate in the continuing calibration verification (CCV) failed criteria. The Aroclors in the CCVIS passed criteria and all the samples passed surrogate. After careful evaluation the data is reported.

ED-00.72-SD03-(3.84-4.05') (240-87591-31), ED-00.72-SD03-(4.05-4.30') (240-87591-32), ED-00.72-SD03-(2.40-3.50)-FD (240-87591-33), ED-00.82-SD02-(0.39-0.70') (240-87591-35) and ED-01.49-SD03-(0-0.70') (240-87591-46)

The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-00.60-SD02-(0-1.76') (240-87591-22), ED-00.60-SD02-(1.76-2.22') (240-87591-23), ED-00.60-SD02-(2.22-2.39') (240-87591-24), ED-00.60-SD02-(2.39-2.63') (240-87591-25), ED-00.60-SD02-(2.63-3.30') (240-87591-26), ED-00.72-SD03-(0-2.06') (240-87591-27), ED-00.72-SD03-(2.06-2.40') (240-87591-28), ED-00.72-SD03-(2.40-3.50') (240-87591-29), ED-00.72-SD03-(3.50-3.84') (240-87591-30), ED-00.72-SD03-(3.84-4.05') (240-87591-31), ED-00.72-SD03-(4.05-4.30') (240-87591-32), ED-00.72-SD03-(2.40-3.50)-FD (240-87591-33), ED.01.03-SD02-(0-0.98) (240-87591-36), ED-01.03-SD02-(0.98-1.65') (240-87591-38), ED-01.03-SD02-(0.98-1.65')-FD (240-87591-39) and ED-01.03-SD02-(1.87-2.25') (240-87591-41). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.60-SD02-(0-1.76') (240-87591-22), ED-00.60-SD02-(1.76-2.22') (240-87591-23), ED-00.60-SD02-(2.22-2.39') (240-87591-24), ED-00.60-SD02-(2.39-2.63') (240-87591-25), ED-00.60-SD02-(2.63-3.30') (240-87591-26), ED-00.72-SD03-(0-2.06') (240-87591-27), ED-00.72-SD03-(2.06-2.40') (240-87591-28), ED-00.72-SD03-(2.40-3.50') (240-87591-29), ED-00.72-SD03-(3.50-3.84') (240-87591-30), ED-00.72-SD03-(3.84-4.05') (240-87591-31), ED-00.72-SD03-(4.05-4.30') (240-87591-32), ED-00.72-SD03-(2.40-3.50)-FD (240-87591-33), ED-00.82-SD02-(0.39-0.70') (240-87591-35), ED.01.03-SD02-(0-0.98) (240-87591-36), ED-01.03-SD02-(0.98-1.65') (240-87591-38), ED-01.03-SD02-(0.98-1.65')-FD (240-87591-39), ED-01.03-SD02-(1.65-1.87') (240-87591-40), ED-01.03-SD02-(1.87-2.25') (240-87591-41) and ED-01.49-SD03-(0-0.70') (240-87591-46).

The following samples were diluted due to the abundance of target analytes: ED-00.60-SD02-(1.76-2.22') (240-87591-23), ED-00.60-SD02-(2.22-2.39') (240-87591-24), ED-00.60-SD02-(2.63-3.30') (240-87591-26), ED-00.72-SD03-(2.40-3.50') (240-87591-29), ED-00.72-SD03-(3.50-3.84') (240-87591-30), ED-00.72-SD03-(3.84-4.05') (240-87591-31), ED-00.72-SD03-(4.05-4.30') (240-87591-32), ED-00.72-SD03-(2.40-3.50)-FD (240-87591-33), ED-01.03-SD02-(0.98-1.65') (240-87591-38), ED-01.03-SD02-(0.98-1.65')-FD (240-87591-39), ED-01.03-SD02-(1.65-1.87') (240-87591-40) and ED-01.03-SD02-(1.87-2.25') (240-87591-41)

The following samples were diluted to bring the concentration of target analytes within the calibration range: ED-00.60-SD02-(1.76-2.22') (240-87591-23), ED-00.60-SD02-(2.22-2.39') (240-87591-24), ED-00.60-SD02-(2.63-3.30') (240-87591-26), ED-00.72-SD03-(2.40-3.50') (240-87591-29), ED-00.72-SD03-(3.50-3.84') (240-87591-30), ED-00.72-SD03-(3.84-4.05') (240-87591-31), ED-00.72-SD03-(4.05-4.30') (240-87591-32), ED-00.72-SD03-(2.40-3.50)-FD (240-87591-33), ED-01.03-SD02-(0.98-1.65') (240-87591-38), ED-01.03-SD02-(0.98-1.65')-FD (240-87591-39), ED-01.03-SD02-(1.65-1.87') (240-87591-40) and ED-01.03-SD02-(1.87-2.25') (240-87591-41). Elevated reporting limits (RLs) are provided.

The MS/MSD were reported at a different dilution than the parent sample. The MS/MSD was diluted to bring target analytes within range. ED-00.82-SD02-(0-0.39') (240-87591-34[MS]) and ED-00.82-SD02-(0-0.39') (240-87591-34[MSD])

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 240-303098 and analytical batch 240-303135 were

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outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The %RPD between the primary and confirmation column exceeded 40% for 1248 for the following sample: ED-00.51-SD02-(0.68-1.65') (240-87591-20). The lower value has been reported and qualified in accordance with the laboratory's SOP.

The following samples appear to contain polychlorinated biphenyls (PCBs); however, the Aroclor patterns of the PCBs in the samples are altered and do not directly match the laboratory's individual Aroclor standards used for instrument calibration: ED-00.51-SD02-(1.65-1.75') (240-87591-21), ED-01.22-SD02-(0.17-0.29') (240-87591-44), ED-01.37-SD02-(0-0.9') (240-87591-45) and SOIL-SED DRUM (240-87591-131). These altered PCB patterns may be caused by weathering, other environmental processes, and/or contributions from the presence of multiple Aroclors resulting in overlapping PCB patterns. The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with the reported results.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.51-SD02-(0.68-1.65') (240-87591-20), ED-00.51-SD02-(1.65-1.75') (240-87591-21), ED-00.82-SD02-(0-0.39') (240-87591-34), ED-00.82-SD02-(0-0.39') (240-87591-34[MS]), ED-00.82-SD02-(0-0.39') (240-87591-34[MSD]), ED-01.14-SD02-(0-1.05') (240-87591-42), ED-01.22-SD02-(0-0.17') (240-87591-43), ED-01.22-SD02-(0.17-0.29') (240-87591-44), ED-01.37-SD02-(0-0.9') (240-87591-45) and SOIL-SED DRUM (240-87591-131).

The Internal standard (ISTD) response for the following samples exceeded the control limit on Column CLP-1 0.53mm ID: ED-00.08-SD02-(0-0.45') (240-87591-1) and ED-00.08-SD02-(0.45-.75') (240-87591-2). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.08-SD02-(0.45-.75') (240-87591-2), ED-00.08-SD02-(0.75-1.4') (240-87591-3), ED-00.08-SD02-(0.75-1.4')-FD (240-87591-4), ED-00.08-SD02-(1.4-2.03') (240-87591-5), ED-00.25-SD01-(0.0-0.57') (240-87591-6), ED-00.25-SD01-(0.57-3.51') (240-87591-7), ED-00.25-SD01-(3.51-4.3') (240-87591-8), ED-00.25-SD01-(3.51-4.3')-DUP (240-87591-9), ED-00.39-SD02-(0-2.20') (240-87591-10), ED-00.39-SD02-(0-2.20') (240-87591-10[MS]), ED-00.39-SD02-(0-2.20') (240-87591-10[MSD]), ED-00.39-SD02-(2.20-2.41') (240-87591-11), ED-00.39-SD02-(2.41-3.54') (240-87591-12), ED-00.39-SD02-(3.54-4.30') (240-87591-13), ED-00.47-SD02-(0-0.33') (240-87591-14), ED-00.47-SD02-(33-1.46') (240-87591-15), ED-00.47-SD02-(1.46-1.96') (240-87591-16), ED-00.47-SD02-(1.96-3.13') (240-87591-17), ED-00.51-SD02-(0-0.36') (240-87591-18) and ED-00.51-SD02-(0.36-0.68') (240-87591-19).

The following samples were diluted due to the abundance of target analytes: ED-00.08-SD02-(1.4-2.03') (240-87591-5) and ED-00.25-SD01-(3.51-4.3')-DUP (240-87591-9)

The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-00.08-SD02-(0-0.45') (240-87591-1), ED-00.08-SD02-(0.75-1.4') (240-87591-3), ED-00.08-SD02-(0.75-1.4')-FD (240-87591-4), ED-00.25-SD01-(0.0-0.57') (240-87591-6), ED-00.25-SD01-(3.51-4.3') (240-87591-8), ED-00.25-SD01-(3.51-4.3')-DUP (240-87591-9), ED-00.39-SD02-(2.20-2.41') (240-87591-11), ED-00.39-SD02-(2.41-3.54') (240-87591-12), ED-00.39-SD02-(3.54-4.30') (240-87591-13), ED-00.47-SD02-(0-0.33') (240-87591-14), ED-00.47-SD02-(33-1.46') (240-87591-15), ED-00.47-SD02-(1.46-1.96') (240-87591-16), ED-00.47-SD02-(1.96-3.13') (240-87591-17), ED-00.51-SD02-(0-0.36') (240-87591-18) and ED-00.51-SD02-(0.36-0.68') (240-87591-19). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: WATER DRUM (240-87591-130). These results have been reported and qualified.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-0060.SL01-(0.19-1.0') (240-87591-54), ED-00.39-SL03-(0.98-1.17') (240-87591-69), ED-00.08-SL01-(0-0.5') (240-87591-91), ED-00.08-SL01-(0-0.5') (240-87591-91[MS]), ED-00.08-SL01-(0-0.5') (240-87591-91[MSD]), ED-00.08-SL01-(0.5-1.0') (240-87591-92), ED-00.08-SL01-(1.0-1.86') (240-87591-93), ED-01.37-SL03-(0-0.27') (240-87591-95) and ED-00.72-SL02-(0-0.5) (240-87591-103).

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The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-0060.SL01-(0.19-1.0') (240-87591-54), ED-00.39-SL03-(0.98-1.17') (240-87591-69), ED-00.39-SL01-(0.5-1.0') (240-87591-72), ED-00.08-SL01-(0-0.5') (240-87591-91), ED-01.37-SL03-(0-0.27') (240-87591-95), ED-01.37-SL03-(0.27-0.92') (240-87591-96), ED-01.37-SL03-(0.92-1.07') (240-87591-97), ED-01.37-SL03-(1.07-2.0') (240-87591-98) and ED-00.72-SL02-(0-0.5) (240-87591-103). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The %RPD between the primary and confirmation column exceeded 40% for 1260 for the following sample: ED-00.08-SL01-(0-0.5') (240-87591-91). The lower value has been reported and qualified in accordance with the laboratory's SOP.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.72-SL02-(0.5-1.0') (240-87591-104), ED-01.14-SL03-(0-0.5') (240-87591-108), ED-01.49-SL02-(0.5-1.0') (240-87591-112), ED-01.03-SL03-(0-0.21') (240-87591-115) and ED-00.82-SL03-(0.5-1.0') (240-87591-118).

The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-00.72-SL02-(0.5-1.0') (240-87591-104), ED-01.24-SL01-(0.87-1.0') (240-87591-107), ED-01.49-SL02-(0-0.5') (240-87591-111), ED-01.49-SL02-(0.5-1.0') (240-87591-112), ED-01.03-SL03-(0-0.21') (240-87591-115), ED-00.82-SL03-(0-0.5') (240-87591-117), ED-00.82-SL03-(0.5-1.0') (240-87591-118), ED-00.72-SL04-(0-0.11') (240-87591-119) and ED-00.72-SL04-(0.11-0.47') (240-87591-120). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: ED-00.82-SL03-(0.5-1.0') (240-87591-118). These results have been reported and qualified.

The following samples appear to contain polychlorinated biphenyls (PCBs); however, the Aroclor patterns of the PCBs in the samples are altered and do not directly match the laboratory's individual Aroclor standards used for instrument calibration: ED-00.39-SL03-(0-0.69')-FD (240-87591-67), ED-00.39-SL03-(0.69-0.98') (240-87591-68), ED-00.39-SL03-(1.17-1.5') (240-87591-70) and ED-00.39-SL01-(0-0.5') (240-87591-71). These altered PCB patterns may be caused by weathering, other environmental processes, and/or contributions from the presence of multiple Aroclors resulting in overlapping PCB patterns. The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with the reported results.

The %RPD between the primary and confirmation column exceeded 40% for the following samples: ED-00.39-SL03-(0-0.69')-FD (240-87591-67) and ED-00.39-SL01-(0-0.5') (240-87591-71). The lower value has been reported and qualified in accordance with the laboratory's SOP.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.39-SL03-(0-0.69')-FD (240-87591-67).

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 240-303095 and analytical batch 240-303440 were outside control limits. Sample target interference are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.60-SD02-(0-1.76') (240-87591-22[MS]), ED-00.60-SD02-(0-1.76') (240-87591-22[MSD]) and ED.01.03-SD02-(0-0.98)-FD (240-87591-37).

The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly

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match any of the laboratory's Aroclor standards used for instrument calibration: ED.01.03-SD02-(0-0.98)-FD (240-87591-37). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The following samples were diluted due to the abundance of target analytes: ED-00.60-SD02-(0-1.76') (240-87591-22[MS]), ED-00.60-SD02-(0-1.76') (240-87591-22[MSD]) and ED.01.03-SD02-(0-0.98)-FD (240-87591-37)

The following samples were diluted to bring the concentration of target analytes within the calibration range: ED-00.60-SD02-(0-1.76') (240-87591-22[MS]), ED-00.60-SD02-(0-1.76') (240-87591-22[MSD]) and ED.01.03-SD02-(0-0.98)-FD (240-87591-37). Elevated reporting limits (RLs) are provided.

The Internal standard (ISTD) response for the following samples exceeded the control limit on Column CLP-2 0.53mm ID: (CCV 240-303311/5) and (CCV 240-303311/3). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-01.14-SL01-(0-0.5') (240-87591-129), ED-01.14-SL01-(0-0.5') (240-87591-129[MS]) and ED-01.14-SL01-(0-0.5') (240-87591-129[MSD]).

The following sample appears to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-01.14-SL01-(0-0.5') (240-87591-129). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The following samples were diluted due to the abundance of target analytes: ED-00.72-SL02-(1.0-1.5') (240-87591-105) and ED-01.24-SL01-(0-0.87') (240-87591-106)

The following sample were diluted to bring the concentration of target analytes within the calibration range: ED-00.72-SL02-(1.0-1.5') (240-87591-105) and ED-01.24-SL01-(0-0.87') (240-87591-106). Elevated reporting limits (RLs) are provided.

The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: ED-00.72-SL02-(1.0-1.5') (240-87591-105) and ED-01.24-SL01-(0-0.87') (240-87591-106). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: ED-00.72-SL02-(1.0-1.5') (240-87591-105).

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 additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

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 CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



Sample Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-87591-1	ED-00.08-SD02-(0-0.45')	Sediment	10/30/17 11:20	11/07/17 17:00
240-87591-2	ED-00.08-SD02-(0.45-.75')	Sediment	10/30/17 11:25	11/07/17 17:00
240-87591-3	ED-00.08-SD02-(0.75-1.4')	Sediment	10/30/17 11:30	11/07/17 17:00
240-87591-4	ED-00.08-SD02-(0.75-1.4')-FD	Sediment	10/30/17 11:30	11/07/17 17:00
240-87591-5	ED-00.08-SD02-(1.4-2.03')	Sediment	10/30/17 11:40	11/07/17 17:00
240-87591-6	ED-00.25-SD01-(0.0-57')	Sediment	11/01/17 11:46	11/07/17 17:00
240-87591-7	ED-00.25-SD01-(0.57-3.51')	Sediment	11/01/17 12:01	11/07/17 17:00
240-87591-8	ED-00.25-SD01-(3.51-4.3')	Sediment	11/01/17 12:19	11/07/17 17:00
240-87591-9	ED-00.25-SD01-(3.51-4.3')-DUP	Sediment	11/01/17 12:19	11/07/17 17:00
240-87591-10	ED-00.39-SD02-(0-2.20')	Sediment	11/01/17 13:35	11/07/17 17:00
240-87591-11	ED-00.39-SD02-(2.20-2.41')	Sediment	11/01/17 13:40	11/07/17 17:00
240-87591-12	ED-00.39-SD02-(2.41-3.54')	Sediment	11/01/17 13:45	11/07/17 17:00
240-87591-13	ED-00.39-SD02-(3.54-4.30')	Sediment	11/01/17 14:00	11/07/17 17:00
240-87591-14	ED-00.47-SD02-(0-0.33')	Sediment	10/30/17 14:10	11/07/17 17:00
240-87591-15	ED-00.47-SD02-(33-1.46')	Sediment	10/30/17 14:15	11/07/17 17:00
240-87591-16	ED-00.47-SD02-(1.46-1.96')	Sediment	10/30/17 14:20	11/07/17 17:00
240-87591-17	ED-00.47-SD02-(1.96-3.13')	Sediment	10/30/17 14:25	11/07/17 17:00
240-87591-18	ED-00.51-SD02-(0-0.36')	Sediment	11/01/17 14:40	11/07/17 17:00
240-87591-19	ED-00.51-SD02-(0.36-0.68')	Sediment	11/01/17 14:45	11/07/17 17:00
240-87591-20	ED-00.51-SD02-(0.68-1.65')	Sediment	11/01/17 14:50	11/07/17 17:00
240-87591-21	ED-00.51-SD02-(1.65-1.75')	Sediment	11/01/17 14:55	11/07/17 17:00
240-87591-22	ED-00.60-SD02-(0-1.76')	Sediment	10/31/17 11:40	11/07/17 17:00
240-87591-23	ED-00.60-SD02-(1.76-2.22')	Sediment	10/31/17 11:41	11/07/17 17:00
240-87591-24	ED-00.60-SD02-(2.22-2.39')	Sediment	10/31/17 11:42	11/07/17 17:00
240-87591-25	ED-00.60-SD02-(2.39-2.63')	Sediment	10/31/17 11:43	11/07/17 17:00
240-87591-26	ED-00.60-SD02-(2.63-3.30')	Sediment	10/31/17 11:44	11/07/17 17:00
240-87591-27	ED-00.72-SD03-(0-2.06')	Sediment	10/31/17 13:15	11/07/17 17:00
240-87591-28	ED-00.72-SD03-(2.06-2.40')	Sediment	10/31/17 13:25	11/07/17 17:00
240-87591-29	ED-00.72-SD03-(2.40-3.50')	Sediment	10/31/17 13:30	11/07/17 17:00
240-87591-30	ED-00.72-SD03-(3.50-3.84')	Sediment	10/31/17 13:35	11/07/17 17:00
240-87591-31	ED-00.72-SD03-(3.84-4.05')	Sediment	10/31/17 13:40	11/07/17 17:00
240-87591-32	ED-00.72-SD03-(4.05-4.30')	Sediment	10/31/17 13:45	11/07/17 17:00
240-87591-33	ED-00.72-SD03-(2.40-3.50)-FD	Sediment	10/31/17 13:30	11/07/17 17:00
240-87591-34	ED-00.82-SD02-(0-0.39')	Sediment	10/31/17 10:50	11/07/17 17:00
240-87591-35	ED-00.82-SD02-(0.39-0.70')	Sediment	10/31/17 10:55	11/07/17 17:00
240-87591-36	ED.01.03-SD02-(0-0.98)	Sediment	10/30/17 17:05	11/07/17 17:00
240-87591-37	ED.01.03-SD02-(0-0.98)-FD	Sediment	10/30/17 17:05	11/07/17 17:00
240-87591-38	ED-01.03-SD02-(0.98-1.65')	Sediment	10/30/17 17:10	11/07/17 17:00
240-87591-39	ED-01.03-SD02-(0.98-1.65')-FD	Sediment	10/30/17 17:10	11/07/17 17:00
240-87591-40	ED-01.03-SD02-(1.65-1.87')	Sediment	10/30/17 17:30	11/07/17 17:00
240-87591-41	ED-01.03-SD02-(1.87-2.25')	Sediment	10/30/17 17:35	11/07/17 17:00
240-87591-42	ED-01.14-SD02-(0-1.05')	Sediment	11/01/17 09:24	11/07/17 17:00
240-87591-43	ED-01.22-SD02-(0-0.17')	Sediment	11/01/17 10:50	11/07/17 17:00
240-87591-44	ED-01.22-SD02-(0.17-0.29')	Sediment	11/01/17 10:55	11/07/17 17:00
240-87591-45	ED-01.37-SD02-(0-0.9')	Sediment	11/02/17 09:50	11/07/17 17:00
240-87591-46	ED-01.49-SD03-(0-0.70')	Sediment	10/31/17 10:23	11/07/17 17:00
240-87591-47	ED-00.82-SOL04-(0-0.13')	Solid	10/31/17 16:34	11/07/17 17:00
240-87591-48	ED-00.82-SOL04-(0.13-0.5)	Solid	10/31/17 16:35	11/07/17 17:00
240-87591-49	ED-00.72-SL01-(0-0.50')	Solid	10/31/17 14:05	11/07/17 17:00
240-87591-50	ED-00.72-SL01-(0.50-1.0')	Solid	10/31/17 14:13	11/07/17 17:00
240-87591-51	ED-00.60-SL03-(0-0.89')	Solid	10/31/17 13:23	11/07/17 17:00
240-87591-52	ED-00.60-SL03-(0.89-1.0')	Solid	10/31/17 13:29	11/07/17 17:00
240-87591-53	ED-0060.SL01-(0-0.19')	Solid	10/31/17 13:41	11/07/17 17:00

TestAmerica Canton

Sample Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-87591-54	ED-0060.SL01-(0.19-1.0')	Solid	10/31/17 13:49	11/07/17 17:00
240-87591-55	ED-00.51-SL03-(0-0.5')	Solid	10/31/17 12:05	11/07/17 17:00
240-87591-56	ED-00.51-SL03-(0.5-1.0')	Solid	10/31/17 12:12	11/07/17 17:00
240-87591-57	ED-00.51-SL03-(0-0.5')-FD	Solid	10/31/17 12:05	11/07/17 17:00
240-87591-58	ED-00.51-SL01-(0-0.5')	Solid	10/31/17 11:35	11/07/17 17:00
240-87591-59	ED-00.51.SL01-(0.5-1.0')	Solid	10/31/17 11:41	11/07/17 17:00
240-87591-60	ED-00.47-SL04-(0-0.80')	Solid	10/31/17 10:46	11/07/17 17:00
240-87591-61	ED-00.47-SL03-(0-0.77')	Solid	10/31/17 10:23	11/07/17 17:00
240-87591-62	ED-00.47-SL03-(0-0.77')-FD	Solid	10/31/17 10:23	11/07/17 17:00
240-87591-63	ED-00.47-SL01-(0-0.5')	Solid	10/31/17 10:04	11/07/17 17:00
240-87591-64	ED-00.39-SL04-(0-0.50')	Solid	10/31/17 09:02	11/07/17 17:00
240-87591-65	ED-00.39-SL04-(0.50-1.0')	Solid	10/31/17 09:06	11/07/17 17:00
240-87591-66	ED-00.39-SL03-(0-0.69')	Solid	10/31/17 08:31	11/07/17 17:00
240-87591-67	ED-00.39-SL03-(0-0.69')-FD	Solid	10/31/17 08:31	11/07/17 17:00
240-87591-68	ED-00.39-SL03-(0.69-0.98')	Solid	10/31/17 08:37	11/07/17 17:00
240-87591-69	ED-00.39-SL03-(0.98-1.17')	Solid	10/31/17 08:40	11/07/17 17:00
240-87591-70	ED-00.39-SL03-(1.17-1.5')	Solid	10/31/17 08:44	11/07/17 17:00
240-87591-71	ED-00.39-SL01-(0-0.5')	Solid	10/31/17 08:11	11/07/17 17:00
240-87591-72	ED-00.39-SL01-(0.5-1.0')	Solid	10/31/17 08:17	11/07/17 17:00
240-87591-73	ED-00.25-SL04-(0-0.5')	Solid	10/30/17 14:54	11/07/17 17:00
240-87591-74	ED-00.25-SL04-(0.5-1.0')	Solid	10/30/17 15:01	11/07/17 17:00
240-87591-75	ED-00.25-SL04-(1.0-1.5')	Solid	10/30/17 15:20	11/07/17 17:00
240-87591-76	ED-00.25-SL04-(1.5-2.0')	Solid	10/30/17 15:27	11/07/17 17:00
240-87591-77	ED-00.25-SL03-(0.0.5')	Solid	10/30/17 16:30	11/07/17 17:00
240-87591-78	ED-00.25-SL03-(0.5-1.0')	Solid	10/30/17 16:51	11/07/17 17:00
240-87591-79	ED-00.25-SL02-(0-0.5')	Solid	10/30/17 16:01	11/07/17 17:00
240-87591-80	ED-00.25-SL02-(0-0.5')-FD	Solid	10/30/17 16:01	11/07/17 17:00
240-87591-81	ED-00.25-SL02-(0.5-1.0')	Solid	10/30/17 16:09	11/07/17 17:00
240-87591-82	ED-00.25-SL02-(1.0-1.5')	Solid	10/30/17 16:10	11/07/17 17:00
240-87591-83	ED-00.08-SL03-(0-0.5')	Solid	10/30/17 12:20	11/07/17 17:00
240-87591-84	ED-00.08-SL03-(0.5-0.97')	Solid	10/30/17 12:33	11/07/17 17:00
240-87591-85	ED-00.08-SL03-(0.97-1..47')	Solid	10/30/17 12:45	11/07/17 17:00
240-87591-86	ED-00.08-SL03-(1.5-2.0')	Solid	10/30/17 12:53	11/07/17 17:00
240-87591-87	ED-00.08-SL04-(0-0.67)	Solid	10/30/17 13:18	11/07/17 17:00
240-87591-88	ED-00.08-SL04-(0.67-0.86)	Solid	10/30/17 13:27	11/07/17 17:00
240-87591-89	ED-00.08-SL04-(0.86-1.36)	Solid	10/30/17 13:39	11/07/17 17:00
240-87591-90	ED-00.08-SL04-(1.5-2.0')	Solid	10/30/17 13:44	11/07/17 17:00
240-87591-91	ED-00.08-SL01-(0-0.5')	Solid	10/30/17 11:07	11/07/17 17:00
240-87591-92	ED-00.08-SL01-(0.5-1.0')	Solid	10/30/17 11:16	11/07/17 17:00
240-87591-93	ED-00.08-SL01-(1.0-1.86')	Solid	10/30/17 11:22	11/07/17 17:00
240-87591-94	ED-00.08-SL01-(1.86-2.0')	Solid	10/30/17 11:34	11/07/17 17:00
240-87591-95	ED-01.37-SL03-(0-0.27')	Solid	11/02/17 09:25	11/07/17 17:00
240-87591-96	ED-01.37-SL03-(0.27-0.92')	Solid	11/02/17 09:26	11/07/17 17:00
240-87591-97	ED-01.37-SL03-(0.92-1.07')	Solid	11/02/17 09:28	11/07/17 17:00
240-87591-98	ED-01.37-SL03-(1.07-2.0')	Solid	11/02/17 09:30	11/07/17 17:00
240-87591-99	ED-01.49-SL04-(0-0.5')	Solid	11/01/17 14:10	11/07/17 17:00
240-87591-100	ED-01.49-SL04-(0.5-1.0')	Solid	11/01/17 14:17	11/07/17 17:00
240-87591-101	ED-01.49-SL04-(1.0-1.81')	Solid	11/01/17 14:27	11/07/17 17:00
240-87591-102	ED-01.49-SL04-(1.81-2.0')	Solid	11/01/17 14:33	11/07/17 17:00
240-87591-103	ED-00.72-SL02-(0-0.5)	Solid	10/31/17 14:50	11/07/17 17:00
240-87591-104	ED-00.72-SL02-(0.5-1.0')	Solid	10/31/17 14:57	11/07/17 17:00
240-87591-105	ED-00.72-SL02-(1.0-1.5')	Solid	10/31/17 15:04	11/07/17 17:00
240-87591-106	ED-01.24-SL01-(0-0.87')	Solid	11/01/17 11:26	11/07/17 17:00

TestAmerica Canton

Sample Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-87591-107	ED-01.24-SL01-(0.87-1.0')	Solid	11/01/17 11:44	11/07/17 17:00
240-87591-108	ED-01.14-SL03-(0-0.5')	Solid	11/01/17 10:22	11/07/17 17:00
240-87591-109	ED-01.14-SL03-(0.5-1.0')	Solid	11/01/17 10:29	11/07/17 17:00
240-87591-110	ED-01.14-SL03-(0.5-1.0')-FD	Solid	11/01/17 10:29	11/07/17 17:00
240-87591-111	ED-01.49-SL02-(0-0.5')	Solid	11/01/17 13:50	11/07/17 17:00
240-87591-112	ED-01.49-SL02-(0.5-1.0')	Solid	11/01/17 13:55	11/07/17 17:00
240-87591-113	ED-01.37-SL01-(0-0.9')	Solid	11/02/17 09:11	11/07/17 17:00
240-87591-114	ED-01.37-SL01-(0-0.9')-FD	Solid	11/02/17 09:11	11/07/17 17:00
240-87591-115	ED-01.03-SL03-(0-0.21')	Solid	10/31/17 17:05	11/07/17 17:00
240-87591-116	ED-01.03-SL03-(0.21-1.0')	Solid	10/31/17 17:13	11/07/17 17:00
240-87591-117	ED-00.82-SL03-(0-0.5')	Solid	10/31/17 16:11	11/07/17 17:00
240-87591-118	ED-00.82-SL03-(0.5-1.0')	Solid	10/31/17 16:15	11/07/17 17:00
240-87591-119	ED-00.72-SL04-(0-0.11')	Solid	10/31/17 15:39	11/07/17 17:00
240-87591-120	ED-00.72-SL04-(0.11-0.47')	Solid	10/31/17 15:40	11/07/17 17:00
240-87591-121	ED-00.72-SL04-(0.47-1.0')	Solid	10/31/17 15:46	11/07/17 17:00
240-87591-122	ED-01.49-SL01-(0-0.5')	Solid	11/01/17 13:40	11/07/17 17:00
240-87591-123	ED-01.49-SL01-(0-0.5')-FD	Solid	11/01/17 13:40	11/07/17 17:00
240-87591-124	ED-01.24-SL03-(0-0.5')	Solid	11/01/17 12:03	11/07/17 17:00
240-87591-125	ED-00.82-SL01-(0-0.22')	Solid	10/31/17 16:04	11/07/17 17:00
240-87591-126	ED-00.82-SL01-(0.22-0.5')	Solid	10/31/17 16:05	11/07/17 17:00
240-87591-127	ED-01.03-SL01-(0-0.5')	Solid	11/01/17 09:32	11/07/17 17:00
240-87591-128	ED-01.03-SL01-(0-0.5')-FD	Solid	11/01/17 09:32	11/07/17 17:00
240-87591-129	ED-01.14-SL01-(0-0.5')	Solid	11/01/17 10:01	11/07/17 17:00
240-87591-130	WATER DRUM	Water	11/01/17 16:26	11/07/17 17:00
240-87591-131	SOIL-SED DRUM	Sediment	11/03/17 12:21	11/07/17 17:00
240-87591-132	EQUIP RINSATE	Water	11/02/17 16:58	11/07/17 17:00
240-87591-133	ED-00.72-SL01-(0-0.5')-FD	Solid	10/31/17 14:05	11/07/17 17:00

Detection Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SD02-(0-0.45')

Lab Sample ID: 240-87591-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	682		90.8	30.9	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	682		90.8	43.6	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.08-SD02-(0.45-.75')

Lab Sample ID: 240-87591-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	4310		458	156	ug/Kg	5	☒	8082A	Total/NA
Aroclor-1260	169	J	458	165	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	4480		458	220	ug/Kg	5	☒	8082A	Total/NA

Client Sample ID: ED-00.08-SD02-(0.75-1.4')

Lab Sample ID: 240-87591-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1140		62.1	21.1	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	53.7	J	62.1	22.3	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1190		62.1	29.8	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.08-SD02-(0.75-1.4')-FD

Lab Sample ID: 240-87591-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1150		61.4	20.9	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	58.2	J	61.4	22.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1210		61.4	29.5	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.08-SD02-(1.4-2.03')

Lab Sample ID: 240-87591-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	7730		664	226	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	7730		664	319	ug/Kg	10	☒	8082A	Total/NA

Client Sample ID: ED-00.25-SD01-(0.0-57')

Lab Sample ID: 240-87591-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	481		62.9	21.4	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	481		62.9	30.2	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.25-SD01-(0.57-3.51')

Lab Sample ID: 240-87591-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	296		59.3	20.2	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	296		59.3	28.5	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.25-SD01-(3.51-4.3')

Lab Sample ID: 240-87591-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	13500		627	251	ug/Kg	10	☒	8082A	Total/NA
Aroclor-1254	3370	p	627	175	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	18600		627	301	ug/Kg	10	☒	8082A	Total/NA

Client Sample ID: ED-00.25-SD01-(3.51-4.3')-DUP

Lab Sample ID: 240-87591-9

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SD01-(3.51-4.3')-DUP (Continued)

Lab Sample ID: 240-87591-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	12300		623	249	ug/Kg	10	☼	8082A	Total/NA
Aroclor-1254	1330	p	623	175	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	14500		623	299	ug/Kg	10	☼	8082A	Total/NA

Client Sample ID: ED-00.39-SD02-(0-2.20')

Lab Sample ID: 240-87591-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	914		63.8	21.7	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	914		63.8	30.6	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.39-SD02-(2.20-2.41')

Lab Sample ID: 240-87591-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2770		296	101	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2770		296	142	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: ED-00.39-SD02-(2.41-3.54')

Lab Sample ID: 240-87591-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2890		329	112	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2890		329	158	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: ED-00.39-SD02-(3.54-4.30')

Lab Sample ID: 240-87591-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	4640		372	126	ug/Kg	5	☼	8082A	Total/NA
Aroclor-1260	139	J	372	134	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	4780		372	179	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: ED-00.47-SD02-(0-0.33')

Lab Sample ID: 240-87591-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1090		63.0	21.4	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	48.6	J	63.0	22.7	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1140		63.0	30.3	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.47-SD02-(33-1.46')

Lab Sample ID: 240-87591-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2740		409	139	ug/Kg	5	☼	8082A	Total/NA
Aroclor-1260	149	J	409	147	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2890		409	196	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: ED-00.47-SD02-(1.46-1.96')

Lab Sample ID: 240-87591-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1380		66.6	22.6	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	81.5		66.6	24.0	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1460		66.6	32.0	ug/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.47-SD02-(1.96-3.13')

Lab Sample ID: 240-87591-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2480		322	109	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	2480		322	154	ug/Kg	5	☒	8082A	Total/NA

Client Sample ID: ED-00.51-SD02-(0-0.36')

Lab Sample ID: 240-87591-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	616		63.1	21.4	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	27.8	J p	63.1	22.7	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	644		63.1	30.3	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.51-SD02-(0.36-0.68')

Lab Sample ID: 240-87591-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1310		80.2	27.3	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	42.6	J p	80.2	28.9	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1350		80.2	38.5	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.51-SD02-(0.68-1.65')

Lab Sample ID: 240-87591-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	552	p	115	39.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	552	p	115	55.0	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.51-SD02-(1.65-1.75')

Lab Sample ID: 240-87591-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	953		89.3	30.4	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	57.6	J	89.3	32.2	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1010		89.3	42.9	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.60-SD02-(0-1.76')

Lab Sample ID: 240-87591-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1030		58.1	19.8	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	25.4	J	58.1	20.9	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1060		58.1	27.9	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.60-SD02-(1.76-2.22')

Lab Sample ID: 240-87591-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	23800		3090	1050	ug/Kg	50	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	23800		3090	1480	ug/Kg	50	☒	8082A	Total/NA

Client Sample ID: ED-00.60-SD02-(2.22-2.39')

Lab Sample ID: 240-87591-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	8090		1270	507	ug/Kg	20	☒	8082A	Total/NA
Aroclor-1254	1190	J	1270	355	ug/Kg	20	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	9280		1270	608	ug/Kg	20	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.60-SD02-(2.39-2.63')

Lab Sample ID: 240-87591-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	507		62.5	25.0	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1254	57.9	J p	62.5	17.5	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	565		62.5	30.0	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.60-SD02-(2.63-3.30')

Lab Sample ID: 240-87591-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	4420		586	234	ug/Kg	10	☒	8082A	Total/NA
Aroclor-1254	444	J	586	164	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	4860		586	281	ug/Kg	10	☒	8082A	Total/NA

Client Sample ID: ED-00.72-SD03-(0-2.06')

Lab Sample ID: 240-87591-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	836		62.6	21.3	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	44.6	J	62.6	22.5	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	881		62.6	30.1	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.72-SD03-(2.06-2.40')

Lab Sample ID: 240-87591-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	1450		60.7	24.3	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1254	157	p	60.7	17.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1610		60.7	29.1	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.72-SD03-(2.40-3.50')

Lab Sample ID: 240-87591-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	12100		615	246	ug/Kg	10	☒	8082A	Total/NA
Aroclor-1254	1960	p	615	172	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	14100		615	295	ug/Kg	10	☒	8082A	Total/NA

Client Sample ID: ED-00.72-SD03-(3.50-3.84')

Lab Sample ID: 240-87591-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	6570		616	246	ug/Kg	10	☒	8082A	Total/NA
Aroclor-1254	1010		616	173	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	7580		616	296	ug/Kg	10	☒	8082A	Total/NA

Client Sample ID: ED-00.72-SD03-(3.84-4.05')

Lab Sample ID: 240-87591-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	6980		590	236	ug/Kg	10	☒	8082A	Total/NA
Aroclor-1254	1440		590	165	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	8420		590	283	ug/Kg	10	☒	8082A	Total/NA

Client Sample ID: ED-00.72-SD03-(4.05-4.30')

Lab Sample ID: 240-87591-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	4540		561	224	ug/Kg	10	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SD03-(4.05-4.30') (Continued)

Lab Sample ID: 240-87591-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	640		561	157	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	5180		561	269	ug/Kg	10	☼	8082A	Total/NA

Client Sample ID: ED-00.72-SD03-(2.40-3.50)-FD

Lab Sample ID: 240-87591-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	11000		623	249	ug/Kg	10	☼	8082A	Total/NA
Aroclor-1254	1710		623	174	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	12700		623	299	ug/Kg	10	☼	8082A	Total/NA

Client Sample ID: ED-00.82-SD02-(0-0.39')

Lab Sample ID: 240-87591-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	436		62.0	21.1	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	436		62.0	29.8	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.82-SD02-(0.39-0.70')

Lab Sample ID: 240-87591-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	336		61.6	20.9	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	336		61.6	29.5	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED.01.03-SD02-(0-0.98)

Lab Sample ID: 240-87591-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	1580		60.3	24.1	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	47.5	J p	60.3	21.7	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1630		60.3	28.9	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED.01.03-SD02-(0-0.98)-FD

Lab Sample ID: 240-87591-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1760		123	41.7	ug/Kg	2	☼	8082A	Total/NA
Aroclor-1260	52.7	J	123	44.1	ug/Kg	2	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1810		123	58.8	ug/Kg	2	☼	8082A	Total/NA

Client Sample ID: ED-01.03-SD02-(0.98-1.65')

Lab Sample ID: 240-87591-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	39900		3110	1240	ug/Kg	50	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	39900		3110	1490	ug/Kg	50	☼	8082A	Total/NA

Client Sample ID: ED-01.03-SD02-(0.98-1.65')-FD

Lab Sample ID: 240-87591-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	17100		3020	1210	ug/Kg	50	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	17100		3020	1450	ug/Kg	50	☼	8082A	Total/NA

Client Sample ID: ED-01.03-SD02-(1.65-1.87')

Lab Sample ID: 240-87591-40

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.03-SD02-(1.65-1.87') (Continued)

Lab Sample ID: 240-87591-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	16000		3050	1040	ug/Kg	50	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	16000		3050	1460	ug/Kg	50	☼	8082A	Total/NA

Client Sample ID: ED-01.03-SD02-(1.87-2.25')

Lab Sample ID: 240-87591-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	1790		348	139	ug/Kg	5	☼	8082A	Total/NA
Aroclor-1254	239	J	348	97.5	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2030		348	167	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: ED-01.14-SD02-(0-1.05')

Lab Sample ID: 240-87591-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	618		63.0	21.4	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	35.8	J	63.0	22.7	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	654		63.0	30.3	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-01.22-SD02-(0-0.17')

Lab Sample ID: 240-87591-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	539		59.5	20.2	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	539		59.5	28.6	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-01.22-SD02-(0.17-0.29')

Lab Sample ID: 240-87591-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	279		62.7	21.3	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	279		62.7	30.1	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-01.37-SD02-(0-0.9')

Lab Sample ID: 240-87591-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1460		63.0	21.4	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	45.1	J	63.0	22.7	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1510		63.0	30.3	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-01.49-SD03-(0-0.70')

Lab Sample ID: 240-87591-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	420		58.8	20.0	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	420		58.8	28.2	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.82-SOL04-(0-0.13')

Lab Sample ID: 240-87591-47

No Detections.

Client Sample ID: ED-00.82-SOL04-(0.13-0.5)

Lab Sample ID: 240-87591-48

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SL01-(0-0.50')

Lab Sample ID: 240-87591-49

No Detections.

Client Sample ID: ED-00.72-SL01-(0.50-1.0')

Lab Sample ID: 240-87591-50

No Detections.

Client Sample ID: ED-00.60-SL03-(0-0.89')

Lab Sample ID: 240-87591-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	25.7	J p	61.3	20.8	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	50.9	J	61.3	29.4	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.60-SL03-(0.89-1.0')

Lab Sample ID: 240-87591-52

No Detections.

Client Sample ID: ED-0060.SL01-(0-0.19')

Lab Sample ID: 240-87591-53

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	213		62.3	17.5	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	213		62.3	29.9	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-0060.SL01-(0.19-1.0')

Lab Sample ID: 240-87591-54

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	187		56.5	19.2	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	187		56.5	27.1	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.51-SL03-(0-0.5')

Lab Sample ID: 240-87591-55

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2680		296	101	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2680		296	142	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: ED-00.51-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-56

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	6440		567	193	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	6440		567	272	ug/Kg	10	☼	8082A	Total/NA

Client Sample ID: ED-00.51-SL03-(0-0.5')-FD

Lab Sample ID: 240-87591-57

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	5520		576	196	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	5520		576	277	ug/Kg	10	☼	8082A	Total/NA

Client Sample ID: ED-00.51-SL01-(0-0.5')

Lab Sample ID: 240-87591-58

No Detections.

Client Sample ID: ED-00.51.SL01-(0.5-1.0')

Lab Sample ID: 240-87591-59

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.47-SL04-(0-0.80')

Lab Sample ID: 240-87591-60

No Detections.

Client Sample ID: ED-00.47-SL03-(0-0.77')

Lab Sample ID: 240-87591-61

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	371		56.4	19.2	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	371		56.4	27.1	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.47-SL03-(0-0.77')-FD

Lab Sample ID: 240-87591-62

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	748		61.0	20.7	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	748		61.0	29.3	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.47-SL01-(0-0.5')

Lab Sample ID: 240-87591-63

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	200		56.4	19.2	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	200		56.4	27.1	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.39-SL04-(0-0.50')

Lab Sample ID: 240-87591-64

No Detections.

Client Sample ID: ED-00.39-SL04-(0.50-1.0')

Lab Sample ID: 240-87591-65

No Detections.

Client Sample ID: ED-00.39-SL03-(0-0.69')

Lab Sample ID: 240-87591-66

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	5000		309	105	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	5000		309	148	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: ED-00.39-SL03-(0-0.69')-FD

Lab Sample ID: 240-87591-67

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	6090		610	207	ug/Kg	10	☼	8082A	Total/NA
Aroclor-1260	389	J p	610	220	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	6840		610	293	ug/Kg	10	☼	8082A	Total/NA

Client Sample ID: ED-00.39-SL03-(0.69-0.98')

Lab Sample ID: 240-87591-68

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	579		55.9	19.0	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	579		55.9	26.8	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.39-SL03-(0.98-1.17')

Lab Sample ID: 240-87591-69

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	5020		626	213	ug/Kg	10	☼	8082A	Total/NA
Aroclor-1260	774		626	225	ug/Kg	10	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SL03-(0.98-1.17') (Continued)

Lab Sample ID: 240-87591-69

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Polychlorinated biphenyls, Total	5790		626	301	ug/Kg	10	☼	8082A	Total/NA

Client Sample ID: ED-00.39-SL03-(1.17-1.5')

Lab Sample ID: 240-87591-70

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	114		58.8	20.0	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	114		58.8	28.2	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.39-SL01-(0-0.5')

Lab Sample ID: 240-87591-71

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	94.1	p	58.4	19.8	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	94.1	p	58.4	28.0	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.39-SL01-(0.5-1.0')

Lab Sample ID: 240-87591-72

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	126		59.7	20.3	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	126		59.7	28.7	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.25-SL04-(0-0.5')

Lab Sample ID: 240-87591-73

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	65.0	p	63.3	17.7	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	65.0	p	63.3	30.4	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.25-SL04-(0.5-1.0')

Lab Sample ID: 240-87591-74

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	43.5	J p	60.7	17.0	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	43.5	J p	60.7	29.1	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.25-SL04-(1.0-1.5')

Lab Sample ID: 240-87591-75

No Detections.

Client Sample ID: ED-00.25-SL04-(1.5-2.0')

Lab Sample ID: 240-87591-76

No Detections.

Client Sample ID: ED-00.25-SL03-(0.0.5')

Lab Sample ID: 240-87591-77

No Detections.

Client Sample ID: ED-00.25-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-78

No Detections.

Client Sample ID: ED-00.25-SL02-(0-0.5')

Lab Sample ID: 240-87591-79

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SL02-(0-0.5') (Continued)

Lab Sample ID: 240-87591-79

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	4140		312	106	ug/Kg	5	☼	8082A	Total/NA
Aroclor-1260	502		312	112	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	4640		312	150	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: ED-00.25-SL02-(0-0.5')-FD

Lab Sample ID: 240-87591-80

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	4710		308	105	ug/Kg	5	☼	8082A	Total/NA
Aroclor-1260	541		308	111	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	5250		308	148	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: ED-00.25-SL02-(0.5-1.0')

Lab Sample ID: 240-87591-81

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	687		56.2	19.1	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	85.3		56.2	20.2	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	772		56.2	27.0	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.25-SL02-(1.0-1.5')

Lab Sample ID: 240-87591-82

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1600		121	41.2	ug/Kg	2	☼	8082A	Total/NA
Aroclor-1260	168		121	43.6	ug/Kg	2	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1770		121	58.2	ug/Kg	2	☼	8082A	Total/NA

Client Sample ID: ED-00.08-SL03-(0-0.5')

Lab Sample ID: 240-87591-83

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	7150		596	203	ug/Kg	10	☼	8082A	Total/NA
Aroclor-1260	843		596	215	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	7990		596	286	ug/Kg	10	☼	8082A	Total/NA

Client Sample ID: ED-00.08-SL03-(0.5-0.97')

Lab Sample ID: 240-87591-84

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1930		108	36.7	ug/Kg	2	☼	8082A	Total/NA
Aroclor-1260	129		108	38.9	ug/Kg	2	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2060		108	51.9	ug/Kg	2	☼	8082A	Total/NA

Client Sample ID: ED-00.08-SL03-(0.97-1..47')

Lab Sample ID: 240-87591-85

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	66000		6030	2050	ug/Kg	100	☼	8082A	Total/NA
Aroclor-1260	2720	J F1	6030	2170	ug/Kg	100	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	68700		6030	2900	ug/Kg	100	☼	8082A	Total/NA

Client Sample ID: ED-00.08-SL03-(1.5-2.0')

Lab Sample ID: 240-87591-86

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	78300		6240	2120	ug/Kg	100	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL03-(1.5-2.0') (Continued)

Lab Sample ID: 240-87591-86

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	4300	J	6240	2250	ug/Kg	100	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	82600		6240	3000	ug/Kg	100	☒	8082A	Total/NA

Client Sample ID: ED-00.08-SL04-(0-0.67)

Lab Sample ID: 240-87591-87

No Detections.

Client Sample ID: ED-00.08-SL04-(0.67-0.86)

Lab Sample ID: 240-87591-88

No Detections.

Client Sample ID: ED-00.08-SL04-(0.86-1.36)

Lab Sample ID: 240-87591-89

No Detections.

Client Sample ID: ED-00.08-SL04-(1.5-2.0')

Lab Sample ID: 240-87591-90

No Detections.

Client Sample ID: ED-00.08-SL01-(0-0.5')

Lab Sample ID: 240-87591-91

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	166		62.5	21.3	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	28.5	J p	62.5	22.5	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	211		62.5	30.0	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.08-SL01-(0.5-1.0')

Lab Sample ID: 240-87591-92

No Detections.

Client Sample ID: ED-00.08-SL01-(1.0-1.86')

Lab Sample ID: 240-87591-93

No Detections.

Client Sample ID: ED-00.08-SL01-(1.86-2.0')

Lab Sample ID: 240-87591-94

No Detections.

Client Sample ID: ED-01.37-SL03-(0-0.27')

Lab Sample ID: 240-87591-95

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	771		63.0	21.4	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	115		63.0	22.7	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	886		63.0	30.3	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.37-SL03-(0.27-0.92')

Lab Sample ID: 240-87591-96

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	159		55.2	18.8	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	159		55.2	26.5	ug/Kg	1	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.37-SL03-(0.92-1.07')

Lab Sample ID: 240-87591-97

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	237		61.7	21.0	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	28.9	J	61.7	22.2	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	266		61.7	29.6	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.37-SL03-(1.07-2.0')

Lab Sample ID: 240-87591-98

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	189		57.4	19.5	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	189		57.4	27.6	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.49-SL04-(0-0.5')

Lab Sample ID: 240-87591-99

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	33.6	J	61.1	17.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	33.6	J	61.1	29.3	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.49-SL04-(0.5-1.0')

Lab Sample ID: 240-87591-100

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	19.6	J	56.7	15.9	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.49-SL04-(1.0-1.81')

Lab Sample ID: 240-87591-101

No Detections.

Client Sample ID: ED-01.49-SL04-(1.81-2.0')

Lab Sample ID: 240-87591-102

No Detections.

Client Sample ID: ED-00.72-SL02-(0-0.5')

Lab Sample ID: 240-87591-103

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1440		659	224	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1440		659	317	ug/Kg	10	☒	8082A	Total/NA

Client Sample ID: ED-00.72-SL02-(0.5-1.0')

Lab Sample ID: 240-87591-104

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1810		67.6	23.0	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	122		67.6	24.3	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1930		67.6	32.5	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.72-SL02-(1.0-1.5')

Lab Sample ID: 240-87591-105

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2290		134	45.5	ug/Kg	2	☒	8082A	Total/NA
Aroclor-1260	145		134	48.1	ug/Kg	2	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	2440		134	64.2	ug/Kg	2	☒	8082A	Total/NA

Client Sample ID: ED-01.24-SL01-(0-0.87')

Lab Sample ID: 240-87591-106

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.24-SL01-(0-0.87') (Continued)

Lab Sample ID: 240-87591-106

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	4240		576	196	ug/Kg	10	☼	8082A	Total/NA
Aroclor-1260	407	J	576	207	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	4650		576	277	ug/Kg	10	☼	8082A	Total/NA

Client Sample ID: ED-01.24-SL01-(0.87-1.0')

Lab Sample ID: 240-87591-107

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	662		54.9	18.7	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	52.8	J	54.9	19.8	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	715		54.9	26.3	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-01.14-SL03-(0-0.5')

Lab Sample ID: 240-87591-108

No Detections.

Client Sample ID: ED-01.14-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-109

No Detections.

Client Sample ID: ED-01.14-SL03-(0.5-1.0')-FD

Lab Sample ID: 240-87591-110

No Detections.

Client Sample ID: ED-01.49-SL02-(0-0.5')

Lab Sample ID: 240-87591-111

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	164		57.2	19.4	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	23.1	J	57.2	20.6	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	187		57.2	27.4	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-01.49-SL02-(0.5-1.0')

Lab Sample ID: 240-87591-112

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	117		57.0	19.4	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	117		57.0	27.4	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-01.37-SL01-(0-0.9')

Lab Sample ID: 240-87591-113

No Detections.

Client Sample ID: ED-01.37-SL01-(0-0.9')-FD

Lab Sample ID: 240-87591-114

No Detections.

Client Sample ID: ED-01.03-SL03-(0-0.21')

Lab Sample ID: 240-87591-115

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	72.2		61.7	21.0	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	72.2		61.7	29.6	ug/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.03-SL03-(0.21-1.0')

Lab Sample ID: 240-87591-116

No Detections.

Client Sample ID: ED-00.82-SL03-(0-0.5')

Lab Sample ID: 240-87591-117

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	70.4		56.1	19.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	70.4		56.1	26.9	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.82-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-118

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1120		78.7	26.8	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	84.8		78.7	28.3	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1200		78.7	37.8	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.72-SL04-(0-0.11')

Lab Sample ID: 240-87591-119

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	54.7	J	64.9	22.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	54.7	J	64.9	31.1	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.72-SL04-(0.11-0.47')

Lab Sample ID: 240-87591-120

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	24.5	J	55.9	19.0	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.72-SL04-(0.47-1.0')

Lab Sample ID: 240-87591-121

No Detections.

Client Sample ID: ED-01.49-SL01-(0-0.5')

Lab Sample ID: 240-87591-122

No Detections.

Client Sample ID: ED-01.49-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-123

No Detections.

Client Sample ID: ED-01.24-SL03-(0-0.5')

Lab Sample ID: 240-87591-124

No Detections.

Client Sample ID: ED-00.82-SL01-(0-0.22')

Lab Sample ID: 240-87591-125

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	339		59.5	20.2	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	58.2	J	59.5	21.4	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	397		59.5	28.6	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.82-SL01-(0.22-0.5')

Lab Sample ID: 240-87591-126

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	260		56.0	19.0	ug/Kg	1	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.82-SL01-(0.22-0.5') (Continued)

Lab Sample ID: 240-87591-126

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	55.4	J	56.0	20.2	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	315		56.0	26.9	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-01.03-SL01-(0-0.5')

Lab Sample ID: 240-87591-127

No Detections.

Client Sample ID: ED-01.03-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-128

No Detections.

Client Sample ID: ED-01.14-SL01-(0-0.5')

Lab Sample ID: 240-87591-129

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2150		285	97.1	ug/Kg	5	☼	8082A	Total/NA
Aroclor-1260	337		285	103	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2490		285	137	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: WATER DRUM

Lab Sample ID: 240-87591-130

No Detections.

Client Sample ID: SOIL-SED DRUM

Lab Sample ID: 240-87591-131

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1220		56.9	19.3	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	87.6		56.9	20.5	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1310		56.9	27.3	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: EQUIP RINSATE

Lab Sample ID: 240-87591-132

No Detections.

Client Sample ID: ED-00-72-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-133

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SD02-(0-0.45')

Lab Sample ID: 240-87591-1

Date Collected: 10/30/17 11:20

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 54.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	43.6	U	90.8	43.6	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Aroclor-1221	41.8	U	90.8	41.8	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Aroclor-1232	29.1	U	90.8	29.1	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Aroclor-1242	36.3	U	90.8	36.3	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Aroclor-1248	682		90.8	30.9	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Aroclor-1254	25.4	U	90.8	25.4	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Aroclor-1260	32.7	U	90.8	32.7	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Aroclor-1262	14.5	U	90.8	14.5	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Aroclor-1268	36.3	U	90.8	36.3	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1
Polychlorinated biphenyls, Total	682		90.8	43.6	ug/Kg	☼	11/10/17 12:42	11/13/17 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		14 - 128	11/10/17 12:42	11/13/17 20:24	1
DCB Decachlorobiphenyl	80		10 - 132	11/10/17 12:42	11/13/17 20:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	54.2		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	45.8		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SD02-(0.45-.75')

Lab Sample ID: 240-87591-2

Date Collected: 10/30/17 11:25

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 54.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	220	U	458	220	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
Aroclor-1221	211	U	458	211	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
Aroclor-1232	147	U	458	147	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
Aroclor-1242	183	U	458	183	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
Aroclor-1248	4310		458	156	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
Aroclor-1254	128	U	458	128	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
Aroclor-1260	169	J	458	165	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
Aroclor-1262	73.3	U	458	73.3	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
Aroclor-1268	183	U	458	183	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5
Polychlorinated biphenyls, Total	4480		458	220	ug/Kg	☼	11/10/17 12:42	11/13/17 20:42	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		14 - 128	11/10/17 12:42	11/13/17 20:42	5
DCB Decachlorobiphenyl	100		10 - 132	11/10/17 12:42	11/13/17 20:42	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	54.0		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	46.0		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SD02-(0.75-1.4')

Lab Sample ID: 240-87591-3

Date Collected: 10/30/17 11:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.8	U	62.1	29.8	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
Aroclor-1221	28.5	U	62.1	28.5	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
Aroclor-1232	19.9	U	62.1	19.9	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
Aroclor-1242	24.8	U	62.1	24.8	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
Aroclor-1248	1140		62.1	21.1	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
Aroclor-1254	17.4	U	62.1	17.4	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
Aroclor-1260	53.7	J	62.1	22.3	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
Aroclor-1262	9.93	U	62.1	9.93	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
Aroclor-1268	24.8	U	62.1	24.8	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1
Polychlorinated biphenyls, Total	1190		62.1	29.8	ug/Kg	☼	11/10/17 12:42	11/13/17 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/10/17 12:42	11/13/17 21:00	1
DCB Decachlorobiphenyl	82		10 - 132	11/10/17 12:42	11/13/17 21:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.1		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	19.9		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SD02-(0.75-1.4')-FD

Lab Sample ID: 240-87591-4

Date Collected: 10/30/17 11:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.5	U	61.4	29.5	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
Aroclor-1221	28.3	U	61.4	28.3	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
Aroclor-1232	19.7	U	61.4	19.7	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
Aroclor-1242	24.6	U	61.4	24.6	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
Aroclor-1248	1150		61.4	20.9	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
Aroclor-1254	17.2	U	61.4	17.2	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
Aroclor-1260	58.2	J	61.4	22.1	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
Aroclor-1262	9.83	U	61.4	9.83	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
Aroclor-1268	24.6	U	61.4	24.6	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1
Polychlorinated biphenyls, Total	1210		61.4	29.5	ug/Kg	☼	11/10/17 12:42	11/13/17 21:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		14 - 128	11/10/17 12:42	11/13/17 21:19	1
DCB Decachlorobiphenyl	81		10 - 132	11/10/17 12:42	11/13/17 21:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.0		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	20.0		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SD02-(1.4-2.03')

Lab Sample ID: 240-87591-5

Date Collected: 10/30/17 11:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 75.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	319	U	664	319	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Aroclor-1221	305	U	664	305	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Aroclor-1232	212	U	664	212	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Aroclor-1242	266	U	664	266	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Aroclor-1248	7730		664	226	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Aroclor-1254	186	U	664	186	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Aroclor-1260	239	U	664	239	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Aroclor-1262	106	U	664	106	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Aroclor-1268	266	U	664	266	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10
Polychlorinated biphenyls, Total	7730		664	319	ug/Kg	☼	11/10/17 12:42	11/13/17 21:37	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	107		14 - 128	11/10/17 12:42	11/13/17 21:37	10
DCB Decachlorobiphenyl	151	X	10 - 132	11/10/17 12:42	11/13/17 21:37	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	75.4		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	24.6		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SD01-(0.0-57')

Lab Sample ID: 240-87591-6

Date Collected: 11/01/17 11:46

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.2	U	62.9	30.2	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Aroclor-1221	28.9	U	62.9	28.9	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Aroclor-1232	20.1	U	62.9	20.1	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Aroclor-1242	25.2	U	62.9	25.2	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Aroclor-1248	481		62.9	21.4	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Aroclor-1254	17.6	U	62.9	17.6	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Aroclor-1260	22.6	U	62.9	22.6	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Aroclor-1262	10.1	U	62.9	10.1	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Aroclor-1268	25.2	U	62.9	25.2	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1
Polychlorinated biphenyls, Total	481		62.9	30.2	ug/Kg	☼	11/10/17 12:42	11/13/17 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		14 - 128	11/10/17 12:42	11/13/17 21:55	1
DCB Decachlorobiphenyl	99		10 - 132	11/10/17 12:42	11/13/17 21:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.0		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	22.0		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SD01-(0.57-3.51')

Lab Sample ID: 240-87591-7

Date Collected: 11/01/17 12:01

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.5	U	59.3	28.5	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Aroclor-1221	27.3	U	59.3	27.3	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Aroclor-1232	19.0	U	59.3	19.0	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Aroclor-1242	23.7	U	59.3	23.7	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Aroclor-1248	296		59.3	20.2	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Aroclor-1254	16.6	U	59.3	16.6	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Aroclor-1260	21.4	U	59.3	21.4	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Aroclor-1262	9.49	U	59.3	9.49	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Aroclor-1268	23.7	U	59.3	23.7	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1
Polychlorinated biphenyls, Total	296		59.3	28.5	ug/Kg	☼	11/10/17 12:42	11/13/17 22:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		14 - 128	11/10/17 12:42	11/13/17 22:14	1
DCB Decachlorobiphenyl	79		10 - 132	11/10/17 12:42	11/13/17 22:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.5		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	16.5		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SD01-(3.51-4.3')

Lab Sample ID: 240-87591-8

Date Collected: 11/01/17 12:19

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	301	U	627	301	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
Aroclor-1221	288	U	627	288	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
Aroclor-1232	201	U	627	201	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
Aroclor-1242	13500		627	251	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
Aroclor-1248	213	U	627	213	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
Aroclor-1254	3370	p	627	175	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
Aroclor-1260	226	U	627	226	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
Aroclor-1262	100	U	627	100	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
Aroclor-1268	251	U	627	251	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10
Polychlorinated biphenyls, Total	18600		627	301	ug/Kg	☼	11/10/17 12:42	11/13/17 22:32	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	166	X	14 - 128	11/10/17 12:42	11/13/17 22:32	10
Tetrachloro-m-xylene	82	p	14 - 128	11/10/17 12:42	11/13/17 22:32	10
DCB Decachlorobiphenyl	40	p	10 - 132	11/10/17 12:42	11/13/17 22:32	10
DCB Decachlorobiphenyl	107		10 - 132	11/10/17 12:42	11/13/17 22:32	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.4		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	21.6		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SD01-(3.51-4.3')-DUP

Lab Sample ID: 240-87591-9

Date Collected: 11/01/17 12:19

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 79.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	299	U	623	299	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
Aroclor-1221	287	U	623	287	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
Aroclor-1232	199	U	623	199	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
Aroclor-1242	12300		623	249	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
Aroclor-1248	212	U	623	212	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
Aroclor-1254	1330	p	623	175	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
Aroclor-1260	224	U	623	224	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
Aroclor-1262	99.7	U	623	99.7	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
Aroclor-1268	249	U	623	249	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10
Polychlorinated biphenyls, Total	14500		623	299	ug/Kg	☼	11/10/17 12:42	11/13/17 22:50	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	203	X	14 - 128	11/10/17 12:42	11/13/17 22:50	10
Tetrachloro-m-xylene	106	p	14 - 128	11/10/17 12:42	11/13/17 22:50	10
DCB Decachlorobiphenyl	53	p	10 - 132	11/10/17 12:42	11/13/17 22:50	10
DCB Decachlorobiphenyl	148	X	10 - 132	11/10/17 12:42	11/13/17 22:50	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.7		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	20.3		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SD02-(0-2.20')

Lab Sample ID: 240-87591-10

Date Collected: 11/01/17 13:35

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.6	U	63.8	30.6	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Aroclor-1221	29.3	U	63.8	29.3	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Aroclor-1232	20.4	U	63.8	20.4	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Aroclor-1242	25.5	U	63.8	25.5	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Aroclor-1248	914		63.8	21.7	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Aroclor-1254	17.9	U	63.8	17.9	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Aroclor-1260	23.0	U	63.8	23.0	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Aroclor-1262	10.2	U	63.8	10.2	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Aroclor-1268	25.5	U	63.8	25.5	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1
Polychlorinated biphenyls, Total	914		63.8	30.6	ug/Kg	☼	11/10/17 12:42	11/13/17 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	11/10/17 12:42	11/13/17 23:09	1
DCB Decachlorobiphenyl	92		10 - 132	11/10/17 12:42	11/13/17 23:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.2		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	21.8		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SD02-(2.20-2.41')

Lab Sample ID: 240-87591-11

Date Collected: 11/01/17 13:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	142	U	296	142	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Aroclor-1221	136	U	296	136	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Aroclor-1232	94.8	U	296	94.8	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Aroclor-1242	119	U	296	119	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Aroclor-1248	2770		296	101	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Aroclor-1254	83.0	U	296	83.0	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Aroclor-1260	107	U	296	107	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Aroclor-1262	47.4	U	296	47.4	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Aroclor-1268	119	U	296	119	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5
Polychlorinated biphenyls, Total	2770		296	142	ug/Kg	☼	11/10/17 12:42	11/14/17 00:04	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		14 - 128	11/10/17 12:42	11/14/17 00:04	5
DCB Decachlorobiphenyl	128		10 - 132	11/10/17 12:42	11/14/17 00:04	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.1		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	16.9		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SD02-(2.41-3.54')

Lab Sample ID: 240-87591-12

Date Collected: 11/01/17 13:45

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 75.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	158	U	329	158	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Aroclor-1221	151	U	329	151	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Aroclor-1232	105	U	329	105	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Aroclor-1242	132	U	329	132	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Aroclor-1248	2890		329	112	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Aroclor-1254	92.1	U	329	92.1	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Aroclor-1260	118	U	329	118	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Aroclor-1262	52.6	U	329	52.6	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Aroclor-1268	132	U	329	132	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5
Polychlorinated biphenyls, Total	2890		329	158	ug/Kg	☼	11/10/17 12:42	11/14/17 00:22	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		14 - 128	11/10/17 12:42	11/14/17 00:22	5
DCB Decachlorobiphenyl	100		10 - 132	11/10/17 12:42	11/14/17 00:22	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	75.0		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	25.0		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SD02-(3.54-4.30')

Lab Sample ID: 240-87591-13

Date Collected: 11/01/17 14:00

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 67.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	179	U	372	179	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
Aroclor-1221	171	U	372	171	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
Aroclor-1232	119	U	372	119	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
Aroclor-1242	149	U	372	149	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
Aroclor-1248	4640		372	126	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
Aroclor-1254	104	U	372	104	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
Aroclor-1260	139	J	372	134	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
Aroclor-1262	59.5	U	372	59.5	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
Aroclor-1268	149	U	372	149	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5
Polychlorinated biphenyls, Total	4780		372	179	ug/Kg	☼	11/10/17 12:42	11/14/17 00:41	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		14 - 128	11/10/17 12:42	11/14/17 00:41	5
DCB Decachlorobiphenyl	113		10 - 132	11/10/17 12:42	11/14/17 00:41	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	67.8		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	32.2		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.47-SD02-(0-0.33')

Lab Sample ID: 240-87591-14

Date Collected: 10/30/17 14:10

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 77.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.3	U	63.0	30.3	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
Aroclor-1221	29.0	U	63.0	29.0	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
Aroclor-1232	20.2	U	63.0	20.2	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
Aroclor-1242	25.2	U	63.0	25.2	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
Aroclor-1248	1090		63.0	21.4	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
Aroclor-1254	17.7	U	63.0	17.7	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
Aroclor-1260	48.6	J	63.0	22.7	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
Aroclor-1262	10.1	U	63.0	10.1	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
Aroclor-1268	25.2	U	63.0	25.2	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1
Polychlorinated biphenyls, Total	1140		63.0	30.3	ug/Kg	☼	11/10/17 12:42	11/14/17 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		14 - 128	11/10/17 12:42	11/14/17 00:59	1
DCB Decachlorobiphenyl	76		10 - 132	11/10/17 12:42	11/14/17 00:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.7		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	22.3		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.47-SD02-(33-1.46')

Lab Sample ID: 240-87591-15

Date Collected: 10/30/17 14:15

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 61.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	196	U	409	196	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
Aroclor-1221	188	U	409	188	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
Aroclor-1232	131	U	409	131	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
Aroclor-1242	163	U	409	163	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
Aroclor-1248	2740		409	139	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
Aroclor-1254	114	U	409	114	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
Aroclor-1260	149	J	409	147	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
Aroclor-1262	65.4	U	409	65.4	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
Aroclor-1268	163	U	409	163	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5
Polychlorinated biphenyls, Total	2890		409	196	ug/Kg	☼	11/10/17 12:42	11/14/17 01:17	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/10/17 12:42	11/14/17 01:17	5
DCB Decachlorobiphenyl	87		10 - 132	11/10/17 12:42	11/14/17 01:17	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	61.2		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	38.8		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.47-SD02-(1.46-1.96')

Lab Sample ID: 240-87591-16

Date Collected: 10/30/17 14:20

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 75.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	32.0	U	66.6	32.0	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
Aroclor-1221	30.6	U	66.6	30.6	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
Aroclor-1232	21.3	U	66.6	21.3	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
Aroclor-1242	26.6	U	66.6	26.6	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
Aroclor-1248	1380		66.6	22.6	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
Aroclor-1254	18.6	U	66.6	18.6	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
Aroclor-1260	81.5		66.6	24.0	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
Aroclor-1262	10.7	U	66.6	10.7	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
Aroclor-1268	26.6	U	66.6	26.6	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1
Polychlorinated biphenyls, Total	1460		66.6	32.0	ug/Kg	☼	11/10/17 12:42	11/14/17 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		14 - 128	11/10/17 12:42	11/14/17 02:31	1
DCB Decachlorobiphenyl	71		10 - 132	11/10/17 12:42	11/14/17 02:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	75.8		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	24.2		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.47-SD02-(1.96-3.13')

Lab Sample ID: 240-87591-17

Date Collected: 10/30/17 14:25

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	154	U	322	154	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Aroclor-1221	148	U	322	148	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Aroclor-1232	103	U	322	103	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Aroclor-1242	129	U	322	129	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Aroclor-1248	2480		322	109	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Aroclor-1254	90.1	U	322	90.1	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Aroclor-1260	116	U	322	116	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Aroclor-1262	51.5	U	322	51.5	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Aroclor-1268	129	U	322	129	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5
Polychlorinated biphenyls, Total	2480		322	154	ug/Kg	☼	11/10/17 12:42	11/14/17 02:49	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		14 - 128	11/10/17 12:42	11/14/17 02:49	5
DCB Decachlorobiphenyl	89		10 - 132	11/10/17 12:42	11/14/17 02:49	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.4		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	21.6		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.51-SD02-(0-0.36')

Lab Sample ID: 240-87591-18

Date Collected: 11/01/17 14:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.3	U	63.1	30.3	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
Aroclor-1221	29.0	U	63.1	29.0	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
Aroclor-1232	20.2	U	63.1	20.2	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
Aroclor-1242	25.2	U	63.1	25.2	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
Aroclor-1248	616		63.1	21.4	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
Aroclor-1254	17.7	U	63.1	17.7	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
Aroclor-1260	27.8	J p	63.1	22.7	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
Aroclor-1262	10.1	U	63.1	10.1	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
Aroclor-1268	25.2	U	63.1	25.2	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1
Polychlorinated biphenyls, Total	644		63.1	30.3	ug/Kg	☼	11/10/17 12:42	11/14/17 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		14 - 128	11/10/17 12:42	11/14/17 03:07	1
DCB Decachlorobiphenyl	79		10 - 132	11/10/17 12:42	11/14/17 03:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.0		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	22.0		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.51-SD02-(0.36-0.68')

Lab Sample ID: 240-87591-19

Date Collected: 11/01/17 14:45

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 62.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	38.5	U	80.2	38.5	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
Aroclor-1221	36.9	U	80.2	36.9	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
Aroclor-1232	25.7	U	80.2	25.7	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
Aroclor-1242	32.1	U	80.2	32.1	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
Aroclor-1248	1310		80.2	27.3	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
Aroclor-1254	22.5	U	80.2	22.5	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
Aroclor-1260	42.6	J p	80.2	28.9	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
Aroclor-1262	12.8	U	80.2	12.8	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
Aroclor-1268	32.1	U	80.2	32.1	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1
Polychlorinated biphenyls, Total	1350		80.2	38.5	ug/Kg	☼	11/10/17 12:42	11/14/17 03:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		14 - 128	11/10/17 12:42	11/14/17 03:26	1
DCB Decachlorobiphenyl	121		10 - 132	11/10/17 12:42	11/14/17 03:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	62.7		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	37.3		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.51-SD02-(0.68-1.65')

Lab Sample ID: 240-87591-20

Date Collected: 11/01/17 14:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 44.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55.0	U	115	55.0	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Aroclor-1221	52.7	U	115	52.7	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Aroclor-1232	36.7	U	115	36.7	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Aroclor-1242	45.8	U	115	45.8	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Aroclor-1248	552	p	115	39.0	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Aroclor-1254	32.1	U	115	32.1	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Aroclor-1260	41.2	U	115	41.2	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Aroclor-1262	18.3	U	115	18.3	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Aroclor-1268	45.8	U	115	45.8	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1
Polychlorinated biphenyls, Total	552	p	115	55.0	ug/Kg	☼	11/11/17 10:25	11/13/17 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	48	p	14 - 128	11/11/17 10:25	11/13/17 12:08	1
DCB Decachlorobiphenyl	47	p	10 - 132	11/11/17 10:25	11/13/17 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	44.5		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	55.5		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.51-SD02-(1.65-1.75')

Lab Sample ID: 240-87591-21

Date Collected: 11/01/17 14:55

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 57.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	42.9	U	89.3	42.9	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
Aroclor-1221	41.1	U	89.3	41.1	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
Aroclor-1232	28.6	U	89.3	28.6	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
Aroclor-1242	35.7	U	89.3	35.7	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
Aroclor-1248	953		89.3	30.4	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
Aroclor-1254	25.0	U	89.3	25.0	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
Aroclor-1260	57.6	J	89.3	32.2	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
Aroclor-1262	14.3	U	89.3	14.3	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
Aroclor-1268	35.7	U	89.3	35.7	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1
Polychlorinated biphenyls, Total	1010		89.3	42.9	ug/Kg	☼	11/11/17 10:25	11/13/17 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		14 - 128	11/11/17 10:25	11/13/17 13:03	1
DCB Decachlorobiphenyl	60	p	10 - 132	11/11/17 10:25	11/13/17 13:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	57.4		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	42.6		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.60-SD02-(0-1.76')

Lab Sample ID: 240-87591-22

Date Collected: 10/31/17 11:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.9	U	58.1	27.9	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
Aroclor-1221	26.7	U	58.1	26.7	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
Aroclor-1232	18.6	U	58.1	18.6	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
Aroclor-1242	23.3	U	58.1	23.3	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
Aroclor-1248	1030		58.1	19.8	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
Aroclor-1254	16.3	U	58.1	16.3	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
Aroclor-1260	25.4	J	58.1	20.9	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
Aroclor-1262	9.30	U	58.1	9.30	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
Aroclor-1268	23.3	U	58.1	23.3	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1
Polychlorinated biphenyls, Total	1060		58.1	27.9	ug/Kg	☼	11/11/17 09:19	11/13/17 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/11/17 09:19	11/13/17 11:54	1
DCB Decachlorobiphenyl	91		10 - 132	11/11/17 09:19	11/13/17 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.7		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	16.3		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.60-SD02-(1.76-2.22')

Lab Sample ID: 240-87591-23

Date Collected: 10/31/17 11:41

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1480	U	3090	1480	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Aroclor-1221	1420	U	3090	1420	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Aroclor-1232	990	U	3090	990	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Aroclor-1242	1240	U	3090	1240	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Aroclor-1248	23800		3090	1050	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Aroclor-1254	866	U	3090	866	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Aroclor-1260	1110	U	3090	1110	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Aroclor-1262	495	U	3090	495	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Aroclor-1268	1240	U	3090	1240	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50
Polychlorinated biphenyls, Total	23800		3090	1480	ug/Kg	☼	11/11/17 09:19	11/13/17 12:53	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	145	X	14 - 128	11/11/17 09:19	11/13/17 12:53	50
DCB Decachlorobiphenyl	51	p	10 - 132	11/11/17 09:19	11/13/17 12:53	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.6		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	21.4		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.60-SD02-(2.22-2.39')

Lab Sample ID: 240-87591-24

Date Collected: 10/31/17 11:42

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 79.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	608	U	1270	608	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
Aroclor-1221	583	U	1270	583	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
Aroclor-1232	405	U	1270	405	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
Aroclor-1242	8090		1270	507	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
Aroclor-1248	431	U	1270	431	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
Aroclor-1254	1190	J	1270	355	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
Aroclor-1260	456	U	1270	456	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
Aroclor-1262	203	U	1270	203	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
Aroclor-1268	507	U	1270	507	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20
Polychlorinated biphenyls, Total	9280		1270	608	ug/Kg	☼	11/11/17 09:19	11/13/17 13:12	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		14 - 128	11/11/17 09:19	11/13/17 13:12	20
DCB Decachlorobiphenyl	94		10 - 132	11/11/17 09:19	11/13/17 13:12	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.7		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	20.3		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.60-SD02-(2.39-2.63')

Lab Sample ID: 240-87591-25

Date Collected: 10/31/17 11:43

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.0	U	62.5	30.0	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
Aroclor-1221	28.7	U	62.5	28.7	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
Aroclor-1232	20.0	U	62.5	20.0	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
Aroclor-1242	507		62.5	25.0	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
Aroclor-1248	21.2	U	62.5	21.2	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
Aroclor-1254	57.9 J p		62.5	17.5	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
Aroclor-1260	22.5	U	62.5	22.5	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
Aroclor-1262	10.0	U	62.5	10.0	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
Aroclor-1268	25.0	U	62.5	25.0	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1
Polychlorinated biphenyls, Total	565		62.5	30.0	ug/Kg	☼	11/11/17 09:19	11/13/17 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		14 - 128	11/11/17 09:19	11/13/17 13:33	1
DCB Decachlorobiphenyl	97		10 - 132	11/11/17 09:19	11/13/17 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.3		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	19.7		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.60-SD02-(2.63-3.30')

Lab Sample ID: 240-87591-26

Date Collected: 10/31/17 11:44

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	281	U	586	281	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
Aroclor-1221	270	U	586	270	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
Aroclor-1232	188	U	586	188	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
Aroclor-1242	4420		586	234	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
Aroclor-1248	199	U	586	199	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
Aroclor-1254	444	J	586	164	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
Aroclor-1260	211	U	586	211	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
Aroclor-1262	93.8	U	586	93.8	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
Aroclor-1268	234	U	586	234	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10
Polychlorinated biphenyls, Total	4860		586	281	ug/Kg	☼	11/11/17 09:19	11/13/17 13:54	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		14 - 128	11/11/17 09:19	11/13/17 13:54	10
DCB Decachlorobiphenyl	191	X	10 - 132	11/11/17 09:19	11/13/17 13:54	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.2		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	16.8		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SD03-(0-2.06')

Lab Sample ID: 240-87591-27

Date Collected: 10/31/17 13:15

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.1	U	62.6	30.1	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
Aroclor-1221	28.8	U	62.6	28.8	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
Aroclor-1232	20.0	U	62.6	20.0	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
Aroclor-1242	25.1	U	62.6	25.1	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
Aroclor-1248	836		62.6	21.3	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
Aroclor-1254	17.5	U	62.6	17.5	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
Aroclor-1260	44.6	J	62.6	22.5	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
Aroclor-1262	10.0	U	62.6	10.0	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
Aroclor-1268	25.1	U	62.6	25.1	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1
Polychlorinated biphenyls, Total	881		62.6	30.1	ug/Kg	☼	11/11/17 09:19	11/13/17 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/11/17 09:19	11/13/17 14:13	1
DCB Decachlorobiphenyl	88		10 - 132	11/11/17 09:19	11/13/17 14:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.0		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	22.0		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SD03-(2.06-2.40')

Lab Sample ID: 240-87591-28

Date Collected: 10/31/17 13:25

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 81.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.1	U	60.7	29.1	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
Aroclor-1221	27.9	U	60.7	27.9	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
Aroclor-1232	19.4	U	60.7	19.4	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
Aroclor-1242	1450		60.7	24.3	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
Aroclor-1248	20.6	U	60.7	20.6	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
Aroclor-1254	157 p		60.7	17.0	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
Aroclor-1260	21.8	U	60.7	21.8	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
Aroclor-1262	9.71	U	60.7	9.71	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
Aroclor-1268	24.3	U	60.7	24.3	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1
Polychlorinated biphenyls, Total	1610		60.7	29.1	ug/Kg	☼	11/11/17 09:19	11/13/17 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		14 - 128	11/11/17 09:19	11/13/17 14:33	1
DCB Decachlorobiphenyl	84		10 - 132	11/11/17 09:19	11/13/17 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.9		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	18.1		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SD03-(2.40-3.50')

Lab Sample ID: 240-87591-29

Date Collected: 10/31/17 13:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	295	U	615	295	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
Aroclor-1221	283	U	615	283	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
Aroclor-1232	197	U	615	197	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
Aroclor-1242	12100		615	246	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
Aroclor-1248	209	U	615	209	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
Aroclor-1254	1960	p	615	172	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
Aroclor-1260	221	U	615	221	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
Aroclor-1262	98.4	U	615	98.4	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
Aroclor-1268	246	U	615	246	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10
Polychlorinated biphenyls, Total	14100		615	295	ug/Kg	☼	11/11/17 09:19	11/13/17 14:52	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	218	X	14 - 128	11/11/17 09:19	11/13/17 14:52	10
DCB Decachlorobiphenyl	128		10 - 132	11/11/17 09:19	11/13/17 14:52	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.2		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	19.8		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SD03-(3.50-3.84')

Lab Sample ID: 240-87591-30

Date Collected: 10/31/17 13:35

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 79.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	296	U	616	296	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
Aroclor-1221	283	U	616	283	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
Aroclor-1232	197	U	616	197	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
Aroclor-1242	6570		616	246	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
Aroclor-1248	210	U	616	210	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
Aroclor-1254	1010		616	173	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
Aroclor-1260	222	U	616	222	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
Aroclor-1262	98.6	U	616	98.6	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
Aroclor-1268	246	U	616	246	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10
Polychlorinated biphenyls, Total	7580		616	296	ug/Kg	☼	11/11/17 09:19	11/13/17 15:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	170	X	14 - 128	11/11/17 09:19	11/13/17 15:13	10
DCB Decachlorobiphenyl	114		10 - 132	11/11/17 09:19	11/13/17 15:13	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.7		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	20.3		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SD03-(3.84-4.05')

Lab Sample ID: 240-87591-31

Date Collected: 10/31/17 13:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 82.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	283	U	590	283	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
Aroclor-1221	271	U	590	271	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
Aroclor-1232	189	U	590	189	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
Aroclor-1242	6980		590	236	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
Aroclor-1248	200	U	590	200	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
Aroclor-1254	1440		590	165	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
Aroclor-1260	212	U	590	212	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
Aroclor-1262	94.3	U	590	94.3	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
Aroclor-1268	236	U	590	236	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10
Polychlorinated biphenyls, Total	8420		590	283	ug/Kg	☼	11/11/17 09:19	11/13/17 16:32	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	219	X	14 - 128	11/11/17 09:19	11/13/17 16:32	10
DCB Decachlorobiphenyl	122		10 - 132	11/11/17 09:19	11/13/17 16:32	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.6		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	17.4		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SD03-(4.05-4.30')

Lab Sample ID: 240-87591-32

Date Collected: 10/31/17 13:45

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 86.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	269	U	561	269	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
Aroclor-1221	258	U	561	258	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
Aroclor-1232	180	U	561	180	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
Aroclor-1242	4540		561	224	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
Aroclor-1248	191	U	561	191	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
Aroclor-1254	640		561	157	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
Aroclor-1260	202	U	561	202	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
Aroclor-1262	89.8	U	561	89.8	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
Aroclor-1268	224	U	561	224	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10
Polychlorinated biphenyls, Total	5180		561	269	ug/Kg	☼	11/11/17 09:19	11/13/17 16:52	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	171	X	14 - 128	11/11/17 09:19	11/13/17 16:52	10
DCB Decachlorobiphenyl	108		10 - 132	11/11/17 09:19	11/13/17 16:52	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.9		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	13.1		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SD03-(2.40-3.50)-FD

Lab Sample ID: 240-87591-33

Date Collected: 10/31/17 13:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	299	U	623	299	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
Aroclor-1221	287	U	623	287	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
Aroclor-1232	199	U	623	199	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
Aroclor-1242	11000		623	249	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
Aroclor-1248	212	U	623	212	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
Aroclor-1254	1710		623	174	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
Aroclor-1260	224	U	623	224	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
Aroclor-1262	99.7	U	623	99.7	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
Aroclor-1268	249	U	623	249	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10
Polychlorinated biphenyls, Total	12700		623	299	ug/Kg	☼	11/11/17 09:19	11/13/17 17:12	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	217	X	14 - 128	11/11/17 09:19	11/13/17 17:12	10
DCB Decachlorobiphenyl	108		10 - 132	11/11/17 09:19	11/13/17 17:12	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.0		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	20.0		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.82-SD02-(0-0.39')

Lab Sample ID: 240-87591-34

Date Collected: 10/31/17 10:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 81.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.8	U F1	62.0	29.8	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Aroclor-1221	28.5	U	62.0	28.5	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Aroclor-1232	19.8	U	62.0	19.8	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Aroclor-1242	24.8	U	62.0	24.8	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Aroclor-1248	436		62.0	21.1	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Aroclor-1254	17.4	U	62.0	17.4	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Aroclor-1260	22.3	U	62.0	22.3	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Aroclor-1262	9.92	U	62.0	9.92	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Aroclor-1268	24.8	U	62.0	24.8	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1
Polychlorinated biphenyls, Total	436		62.0	29.8	ug/Kg	☼	11/11/17 10:25	11/13/17 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	74		14 - 128	11/11/17 10:25	11/13/17 11:14	1
DCB Decachlorobiphenyl	72		10 - 132	11/11/17 10:25	11/13/17 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.7		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	18.3		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.82-SD02-(0.39-0.70')

Lab Sample ID: 240-87591-35

Date Collected: 10/31/17 10:55

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 79.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.5	U	61.6	29.5	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Aroclor-1221	28.3	U	61.6	28.3	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Aroclor-1232	19.7	U	61.6	19.7	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Aroclor-1242	24.6	U	61.6	24.6	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Aroclor-1248	336		61.6	20.9	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Aroclor-1254	17.2	U	61.6	17.2	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Aroclor-1260	22.2	U	61.6	22.2	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Aroclor-1262	9.85	U	61.6	9.85	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Aroclor-1268	24.6	U	61.6	24.6	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1
Polychlorinated biphenyls, Total	336		61.6	29.5	ug/Kg	☼	11/11/17 09:19	11/13/17 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		14 - 128	11/11/17 09:19	11/13/17 17:32	1
DCB Decachlorobiphenyl	78		10 - 132	11/11/17 09:19	11/13/17 17:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.9		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	20.1		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED.01.03-SD02-(0-0.98)

Lab Sample ID: 240-87591-36

Date Collected: 10/30/17 17:05

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 81.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.9	U	60.3	28.9	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
Aroclor-1221	27.7	U	60.3	27.7	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
Aroclor-1232	19.3	U	60.3	19.3	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
Aroclor-1242	1580		60.3	24.1	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
Aroclor-1248	20.5	U	60.3	20.5	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
Aroclor-1254	16.9	U	60.3	16.9	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
Aroclor-1260	47.5	J p	60.3	21.7	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
Aroclor-1262	9.64	U	60.3	9.64	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
Aroclor-1268	24.1	U	60.3	24.1	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1
Polychlorinated biphenyls, Total	1630		60.3	28.9	ug/Kg	☼	11/11/17 09:19	11/13/17 09:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		14 - 128	11/11/17 09:19	11/13/17 09:54	1
DCB Decachlorobiphenyl	69		10 - 132	11/11/17 09:19	11/13/17 09:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.5		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	18.5		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED.01.03-SD02-(0-0.98)-FD

Lab Sample ID: 240-87591-37

Date Collected: 10/30/17 17:05

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 81.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	58.8	U	123	58.8	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
Aroclor-1221	56.4	U	123	56.4	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
Aroclor-1232	39.2	U	123	39.2	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
Aroclor-1242	49.0	U	123	49.0	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
Aroclor-1248	1760		123	41.7	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
Aroclor-1254	34.3	U	123	34.3	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
Aroclor-1260	52.7	J	123	44.1	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
Aroclor-1262	19.6	U	123	19.6	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
Aroclor-1268	49.0	U	123	49.0	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2
Polychlorinated biphenyls, Total	1810		123	58.8	ug/Kg	☼	11/11/17 09:19	11/14/17 22:54	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		14 - 128	11/11/17 09:19	11/14/17 22:54	2
DCB Decachlorobiphenyl	108		10 - 132	11/11/17 09:19	11/14/17 22:54	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.0		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	19.0		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.03-SD02.-(0.98-1.65')

Lab Sample ID: 240-87591-38

Date Collected: 10/30/17 17:10

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 79.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1490	U	3110	1490	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Aroclor-1221	1430	U	3110	1430	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Aroclor-1232	995	U	3110	995	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Aroclor-1242	39900		3110	1240	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Aroclor-1248	1060	U	3110	1060	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Aroclor-1254	870	U	3110	870	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Aroclor-1260	1120	U	3110	1120	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Aroclor-1262	497	U	3110	497	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Aroclor-1268	1240	U	3110	1240	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50
Polychlorinated biphenyls, Total	39900		3110	1490	ug/Kg	☼	11/11/17 09:19	11/13/17 10:33	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	578	X	14 - 128	11/11/17 09:19	11/13/17 10:33	50
DCB Decachlorobiphenyl	0	X	10 - 132	11/11/17 09:19	11/13/17 10:33	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.8		0.1	0.1	%			11/08/17 07:28	1
Percent Moisture	20.2		0.1	0.1	%			11/08/17 07:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.03-SD02-(0.98-1.65')-FD

Lab Sample ID: 240-87591-39

Date Collected: 10/30/17 17:10

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1450	U	3020	1450	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Aroclor-1221	1390	U	3020	1390	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Aroclor-1232	966	U	3020	966	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Aroclor-1242	17100		3020	1210	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Aroclor-1248	1030	U	3020	1030	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Aroclor-1254	845	U	3020	845	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Aroclor-1260	1090	U	3020	1090	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Aroclor-1262	483	U	3020	483	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Aroclor-1268	1210	U	3020	1210	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50
Polychlorinated biphenyls, Total	17100		3020	1450	ug/Kg	☼	11/11/17 09:19	11/13/17 10:53	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	250	X	14 - 128	11/11/17 09:19	11/13/17 10:53	50
DCB Decachlorobiphenyl	110		10 - 132	11/11/17 09:19	11/13/17 10:53	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.9		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	19.1		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.03-SD02-(1.65-1.87')

Lab Sample ID: 240-87591-40

Date Collected: 10/30/17 17:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1460	U	3050	1460	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Aroclor-1221	1400	U	3050	1400	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Aroclor-1232	977	U	3050	977	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Aroclor-1242	1220	U	3050	1220	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Aroclor-1248	16000		3050	1040	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Aroclor-1254	855	U	3050	855	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Aroclor-1260	1100	U	3050	1100	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Aroclor-1262	488	U	3050	488	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Aroclor-1268	1220	U	3050	1220	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50
Polychlorinated biphenyls, Total	16000		3050	1460	ug/Kg	☼	11/11/17 09:19	11/13/17 11:13	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	186	X	14 - 128	11/11/17 09:19	11/13/17 11:13	50
DCB Decachlorobiphenyl	91	p	10 - 132	11/11/17 09:19	11/13/17 11:13	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.0		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	20.0		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.03-SD02-(1.87-2.25')

Lab Sample ID: 240-87591-41

Date Collected: 10/30/17 17:35

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 69.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	167	U	348	167	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
Aroclor-1221	160	U	348	160	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
Aroclor-1232	111	U	348	111	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
Aroclor-1242	1790		348	139	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
Aroclor-1248	118	U	348	118	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
Aroclor-1254	239	J	348	97.5	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
Aroclor-1260	125	U	348	125	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
Aroclor-1262	55.7	U	348	55.7	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
Aroclor-1268	139	U	348	139	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5
Polychlorinated biphenyls, Total	2030		348	167	ug/Kg	☼	11/11/17 09:19	11/13/17 11:33	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	97		14 - 128	11/11/17 09:19	11/13/17 11:33	5
DCB Decachlorobiphenyl	102		10 - 132	11/11/17 09:19	11/13/17 11:33	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	69.9		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	30.1		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.14-SD02-(0-1.05')

Lab Sample ID: 240-87591-42

Date Collected: 11/01/17 09:24

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.3	U	63.0	30.3	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
Aroclor-1221	29.0	U	63.0	29.0	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
Aroclor-1232	20.2	U	63.0	20.2	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
Aroclor-1242	25.2	U	63.0	25.2	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
Aroclor-1248	618		63.0	21.4	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
Aroclor-1254	17.7	U	63.0	17.7	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
Aroclor-1260	35.8	J	63.0	22.7	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
Aroclor-1262	10.1	U	63.0	10.1	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
Aroclor-1268	25.2	U	63.0	25.2	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1
Polychlorinated biphenyls, Total	654		63.0	30.3	ug/Kg	☼	11/11/17 10:25	11/13/17 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/11/17 10:25	11/13/17 13:22	1
DCB Decachlorobiphenyl	73		10 - 132	11/11/17 10:25	11/13/17 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.0		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	17.0		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.22-SD02-(0-0.17')

Lab Sample ID: 240-87591-43

Date Collected: 11/01/17 10:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 82.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.6	U	59.5	28.6	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Aroclor-1221	27.4	U	59.5	27.4	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Aroclor-1232	19.0	U	59.5	19.0	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Aroclor-1242	23.8	U	59.5	23.8	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Aroclor-1248	539		59.5	20.2	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Aroclor-1254	16.7	U	59.5	16.7	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Aroclor-1260	21.4	U	59.5	21.4	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Aroclor-1262	9.52	U	59.5	9.52	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Aroclor-1268	23.8	U	59.5	23.8	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1
Polychlorinated biphenyls, Total	539		59.5	28.6	ug/Kg	☼	11/11/17 10:25	11/13/17 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		14 - 128	11/11/17 10:25	11/13/17 13:40	1
DCB Decachlorobiphenyl	72	p	10 - 132	11/11/17 10:25	11/13/17 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.9		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	17.1		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.22-SD02-(0.17-0.29')

Lab Sample ID: 240-87591-44

Date Collected: 11/01/17 10:55

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.1	U	62.7	30.1	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Aroclor-1221	28.8	U	62.7	28.8	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Aroclor-1232	20.1	U	62.7	20.1	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Aroclor-1242	25.1	U	62.7	25.1	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Aroclor-1248	279		62.7	21.3	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Aroclor-1254	17.6	U	62.7	17.6	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Aroclor-1260	22.6	U	62.7	22.6	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Aroclor-1262	10.0	U	62.7	10.0	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Aroclor-1268	25.1	U	62.7	25.1	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1
Polychlorinated biphenyls, Total	279		62.7	30.1	ug/Kg	☼	11/11/17 10:25	11/13/17 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	11/11/17 10:25	11/13/17 14:54	1
DCB Decachlorobiphenyl	77		10 - 132	11/11/17 10:25	11/13/17 14:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.7		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	19.3		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.37-SD02-(0-0.9')

Lab Sample ID: 240-87591-45

Date Collected: 11/02/17 09:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 81.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.3	U	63.0	30.3	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
Aroclor-1221	29.0	U	63.0	29.0	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
Aroclor-1232	20.2	U	63.0	20.2	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
Aroclor-1242	25.2	U	63.0	25.2	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
Aroclor-1248	1460		63.0	21.4	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
Aroclor-1254	17.6	U	63.0	17.6	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
Aroclor-1260	45.1	J	63.0	22.7	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
Aroclor-1262	10.1	U	63.0	10.1	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
Aroclor-1268	25.2	U	63.0	25.2	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1
Polychlorinated biphenyls, Total	1510		63.0	30.3	ug/Kg	☼	11/11/17 10:25	11/13/17 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		14 - 128	11/11/17 10:25	11/13/17 15:12	1
DCB Decachlorobiphenyl	79		10 - 132	11/11/17 10:25	11/13/17 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.5		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	18.5		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.49-SD03-(0-0.70')

Lab Sample ID: 240-87591-46

Date Collected: 10/31/17 10:23

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.2	U	58.8	28.2	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Aroclor-1221	27.0	U	58.8	27.0	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Aroclor-1232	18.8	U	58.8	18.8	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Aroclor-1242	23.5	U	58.8	23.5	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Aroclor-1248	420		58.8	20.0	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Aroclor-1254	16.5	U	58.8	16.5	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Aroclor-1260	21.2	U	58.8	21.2	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Aroclor-1262	9.40	U	58.8	9.40	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Aroclor-1268	23.5	U	58.8	23.5	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1
Polychlorinated biphenyls, Total	420		58.8	28.2	ug/Kg	☼	11/11/17 09:19	11/13/17 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		14 - 128	11/11/17 09:19	11/13/17 17:52	1
DCB Decachlorobiphenyl	91		10 - 132	11/11/17 09:19	11/13/17 17:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.5		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	16.5		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.82-SOL04-(0-0.13')

Lab Sample ID: 240-87591-47

Date Collected: 10/31/17 16:34

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.8	U	59.9	28.8	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1221	27.6	U	59.9	27.6	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1232	19.2	U	59.9	19.2	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1242	24.0	U	59.9	24.0	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1248	20.4	U	59.9	20.4	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1254	16.8	U	59.9	16.8	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1260	21.6	U	59.9	21.6	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1262	9.58	U	59.9	9.58	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Aroclor-1268	24.0	U	59.9	24.0	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1
Polychlorinated biphenyls, Total	28.8	U	59.9	28.8	ug/Kg	☼	11/09/17 10:58	11/11/17 09:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		14 - 128	11/09/17 10:58	11/11/17 09:12	1
DCB Decachlorobiphenyl	99		10 - 132	11/09/17 10:58	11/11/17 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.5		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	19.5		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.82-SOL04-(0.13-0.5)

Lab Sample ID: 240-87591-48

Date Collected: 10/31/17 16:35

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 91.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.1	U	52.2	25.1	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1221	24.0	U	52.2	24.0	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1232	16.7	U	52.2	16.7	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1242	20.9	U	52.2	20.9	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1248	17.8	U	52.2	17.8	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1254	14.6	U	52.2	14.6	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1260	18.8	U	52.2	18.8	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1262	8.36	U	52.2	8.36	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Aroclor-1268	20.9	U	52.2	20.9	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1
Polychlorinated biphenyls, Total	25.1	U	52.2	25.1	ug/Kg	☼	11/09/17 10:58	11/11/17 09:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	69		14 - 128	11/09/17 10:58	11/11/17 09:32	1
DCB Decachlorobiphenyl	87		10 - 132	11/09/17 10:58	11/11/17 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91.2		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	8.8		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SL01-(0-0.50')

Lab Sample ID: 240-87591-49

Date Collected: 10/31/17 14:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.9	U	64.4	30.9	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1221	29.6	U	64.4	29.6	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1232	20.6	U	64.4	20.6	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1242	25.7	U	64.4	25.7	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1248	21.9	U	64.4	21.9	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1254	18.0	U	64.4	18.0	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1260	23.2	U	64.4	23.2	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1262	10.3	U	64.4	10.3	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Aroclor-1268	25.7	U	64.4	25.7	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1
Polychlorinated biphenyls, Total	30.9	U	64.4	30.9	ug/Kg	☼	11/09/17 10:58	11/11/17 09:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	75		14 - 128	11/09/17 10:58	11/11/17 09:51	1
DCB Decachlorobiphenyl	95		10 - 132	11/09/17 10:58	11/11/17 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.4		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	21.6		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SL01-(0.50-1.0')

Lab Sample ID: 240-87591-50

Date Collected: 10/31/17 14:13

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 76.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	32.0	U	66.7	32.0	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1221	30.7	U	66.7	30.7	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1232	21.4	U	66.7	21.4	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1242	26.7	U	66.7	26.7	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1248	22.7	U	66.7	22.7	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1254	18.7	U	66.7	18.7	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1260	24.0	U	66.7	24.0	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1262	10.7	U	66.7	10.7	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Aroclor-1268	26.7	U	66.7	26.7	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1
Polychlorinated biphenyls, Total	32.0	U	66.7	32.0	ug/Kg	☼	11/09/17 10:58	11/11/17 10:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	74		14 - 128	11/09/17 10:58	11/11/17 10:11	1
DCB Decachlorobiphenyl	87		10 - 132	11/09/17 10:58	11/11/17 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	76.8		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	23.2		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.60-SL03-(0-0.89')

Lab Sample ID: 240-87591-51

Date Collected: 10/31/17 13:23

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.4	U	61.3	29.4	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Aroclor-1221	28.2	U	61.3	28.2	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Aroclor-1232	19.6	U	61.3	19.6	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Aroclor-1242	24.5	U	61.3	24.5	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Aroclor-1248	25.7	J p	61.3	20.8	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Aroclor-1254	17.2	U	61.3	17.2	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Aroclor-1260	22.1	U	61.3	22.1	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Aroclor-1262	9.80	U	61.3	9.80	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Aroclor-1268	24.5	U	61.3	24.5	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1
Polychlorinated biphenyls, Total	50.9	J	61.3	29.4	ug/Kg	☼	11/09/17 10:58	11/11/17 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		14 - 128	11/09/17 10:58	11/11/17 16:04	1
Tetrachloro-m-xylene	86		14 - 128	11/09/17 10:58	11/11/17 16:04	1
DCB Decachlorobiphenyl	95		10 - 132	11/09/17 10:58	11/11/17 16:04	1
DCB Decachlorobiphenyl	85		10 - 132	11/09/17 10:58	11/11/17 16:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.3		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	19.7		0.1	0.1	%			11/08/17 08:01	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.60-SL03-(0.89-1.0')

Lab Sample ID: 240-87591-52

Date Collected: 10/31/17 13:29

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.1	U	58.6	28.1	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1221	27.0	U	58.6	27.0	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1232	18.8	U	58.6	18.8	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1242	23.5	U	58.6	23.5	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1248	19.9	U	58.6	19.9	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1254	16.4	U	58.6	16.4	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1260	21.1	U	58.6	21.1	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1262	9.38	U	58.6	9.38	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Aroclor-1268	23.5	U	58.6	23.5	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1
Polychlorinated biphenyls, Total	28.1	U	58.6	28.1	ug/Kg	☼	11/09/17 10:58	11/11/17 10:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	77		14 - 128	11/09/17 10:58	11/11/17 10:30	1
DCB Decachlorobiphenyl	89		10 - 132	11/09/17 10:58	11/11/17 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.4		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	15.6		0.1	0.1	%			11/08/17 08:01	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-0060.SL01-(0-0.19')

Lab Sample ID: 240-87591-53

Date Collected: 10/31/17 13:41

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 81.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.9	U	62.3	29.9	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Aroclor-1221	28.7	U	62.3	28.7	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Aroclor-1232	19.9	U	62.3	19.9	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Aroclor-1242	24.9	U	62.3	24.9	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Aroclor-1248	21.2	U	62.3	21.2	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Aroclor-1254	213		62.3	17.5	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Aroclor-1260	22.4	U	62.3	22.4	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Aroclor-1262	9.97	U	62.3	9.97	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Aroclor-1268	24.9	U	62.3	24.9	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1
Polychlorinated biphenyls, Total	213		62.3	29.9	ug/Kg	☼	11/09/17 10:58	11/11/17 10:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		14 - 128	11/09/17 10:58	11/11/17 10:50	1
DCB Decachlorobiphenyl	113		10 - 132	11/09/17 10:58	11/11/17 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.4		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	18.6		0.1	0.1	%			11/08/17 08:01	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-0060.SL01-(0.19-1.0')

Lab Sample ID: 240-87591-54

Date Collected: 10/31/17 13:49

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 89.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.1	U	56.5	27.1	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Aroclor-1221	26.0	U	56.5	26.0	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Aroclor-1232	18.1	U	56.5	18.1	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Aroclor-1242	22.6	U	56.5	22.6	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Aroclor-1248	187		56.5	19.2	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Aroclor-1254	15.8	U	56.5	15.8	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Aroclor-1260	20.4	U	56.5	20.4	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Aroclor-1262	9.05	U	56.5	9.05	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Aroclor-1268	22.6	U	56.5	22.6	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1
Polychlorinated biphenyls, Total	187		56.5	27.1	ug/Kg	☼	11/10/17 10:03	11/14/17 07:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/10/17 10:03	11/14/17 07:42	1
DCB Decachlorobiphenyl	88		10 - 132	11/10/17 10:03	11/14/17 07:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.0		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	11.0		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.51-SL03-(0-0.5')

Lab Sample ID: 240-87591-55

Date Collected: 10/31/17 12:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	142	U	296	142	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Aroclor-1221	136	U	296	136	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Aroclor-1232	94.9	U	296	94.9	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Aroclor-1242	119	U	296	119	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Aroclor-1248	2680		296	101	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Aroclor-1254	83.0	U	296	83.0	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Aroclor-1260	107	U	296	107	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Aroclor-1262	47.4	U	296	47.4	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Aroclor-1268	119	U	296	119	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5
Polychlorinated biphenyls, Total	2680		296	142	ug/Kg	☼	11/09/17 10:58	11/11/17 11:10	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		14 - 128	11/09/17 10:58	11/11/17 11:10	5
DCB Decachlorobiphenyl	0	X	10 - 132	11/09/17 10:58	11/11/17 11:10	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.2		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	14.8		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.51-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-56

Date Collected: 10/31/17 12:12

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	272	U	567	272	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Aroclor-1221	261	U	567	261	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Aroclor-1232	181	U	567	181	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Aroclor-1242	227	U	567	227	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Aroclor-1248	6440		567	193	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Aroclor-1254	159	U	567	159	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Aroclor-1260	204	U	567	204	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Aroclor-1262	90.7	U	567	90.7	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Aroclor-1268	227	U	567	227	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10
Polychlorinated biphenyls, Total	6440		567	272	ug/Kg	☼	11/09/17 10:58	11/11/17 11:30	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		14 - 128	11/09/17 10:58	11/11/17 11:30	10
DCB Decachlorobiphenyl	38		10 - 132	11/09/17 10:58	11/11/17 11:30	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.4		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	15.6		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.51-SL03-(0-0.5')-FD

Lab Sample ID: 240-87591-57

Date Collected: 10/31/17 12:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	277	U	576	277	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Aroclor-1221	265	U	576	265	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Aroclor-1232	184	U	576	184	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Aroclor-1242	231	U	576	231	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Aroclor-1248	5520		576	196	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Aroclor-1254	161	U	576	161	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Aroclor-1260	208	U	576	208	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Aroclor-1262	92.2	U	576	92.2	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Aroclor-1268	231	U	576	231	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10
Polychlorinated biphenyls, Total	5520		576	277	ug/Kg	☼	11/09/17 10:58	11/11/17 11:49	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	11/09/17 10:58	11/11/17 11:49	10
DCB Decachlorobiphenyl	115		10 - 132	11/09/17 10:58	11/11/17 11:49	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.0		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	15.0		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.51-SL01-(0-0.5')

Lab Sample ID: 240-87591-58

Date Collected: 10/31/17 11:35

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 90.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.9	U	56.0	26.9	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1221	25.8	U	56.0	25.8	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1232	17.9	U	56.0	17.9	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1242	22.4	U	56.0	22.4	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1248	19.0	U	56.0	19.0	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1254	15.7	U	56.0	15.7	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1260	20.2	U	56.0	20.2	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1262	8.96	U	56.0	8.96	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Aroclor-1268	22.4	U	56.0	22.4	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1
Polychlorinated biphenyls, Total	26.9	U	56.0	26.9	ug/Kg	☼	11/09/17 10:58	11/11/17 12:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		14 - 128	11/09/17 10:58	11/11/17 12:09	1
DCB Decachlorobiphenyl	95		10 - 132	11/09/17 10:58	11/11/17 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.6		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	9.4		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.51.SL01-(0.5-1.0')

Lab Sample ID: 240-87591-59

Date Collected: 10/31/17 11:41

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.3	U	63.1	30.3	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1221	29.0	U	63.1	29.0	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1232	20.2	U	63.1	20.2	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1242	25.2	U	63.1	25.2	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1248	21.5	U	63.1	21.5	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1254	17.7	U	63.1	17.7	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1260	22.7	U	63.1	22.7	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1262	10.1	U	63.1	10.1	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Aroclor-1268	25.2	U	63.1	25.2	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1
Polychlorinated biphenyls, Total	30.3	U	63.1	30.3	ug/Kg	☼	11/09/17 10:58	11/11/17 12:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		14 - 128	11/09/17 10:58	11/11/17 12:29	1
DCB Decachlorobiphenyl	93		10 - 132	11/09/17 10:58	11/11/17 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.7		0.1	0.1	%			11/08/17 07:58	1
Percent Moisture	20.3		0.1	0.1	%			11/08/17 07:58	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.47-SL04-(0-0.80')

Lab Sample ID: 240-87591-60

Date Collected: 10/31/17 10:46

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.3	U	61.1	29.3	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1221	28.1	U	61.1	28.1	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1232	19.6	U	61.1	19.6	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1242	24.4	U	61.1	24.4	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1248	20.8	U	61.1	20.8	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1254	17.1	U	61.1	17.1	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1260	22.0	U	61.1	22.0	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1262	9.78	U	61.1	9.78	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Aroclor-1268	24.4	U	61.1	24.4	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1
Polychlorinated biphenyls, Total	29.3	U	61.1	29.3	ug/Kg	☼	11/09/17 10:58	11/11/17 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	68		14 - 128	11/09/17 10:58	11/11/17 12:48	1
DCB Decachlorobiphenyl	84		10 - 132	11/09/17 10:58	11/11/17 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.4		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	21.6		0.1	0.1	%			11/08/17 08:01	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.47-SL03-(0-0.77')

Lab Sample ID: 240-87591-61

Date Collected: 10/31/17 10:23

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.1	U	56.4	27.1	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Aroclor-1221	26.0	U	56.4	26.0	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Aroclor-1232	18.1	U	56.4	18.1	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Aroclor-1242	22.6	U	56.4	22.6	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Aroclor-1248	371		56.4	19.2	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Aroclor-1254	15.8	U	56.4	15.8	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Aroclor-1260	20.3	U	56.4	20.3	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Aroclor-1262	9.03	U	56.4	9.03	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Aroclor-1268	22.6	U	56.4	22.6	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1
Polychlorinated biphenyls, Total	371		56.4	27.1	ug/Kg	☼	11/09/17 10:58	11/11/17 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	73		14 - 128	11/09/17 10:58	11/11/17 13:08	1
DCB Decachlorobiphenyl	84		10 - 132	11/09/17 10:58	11/11/17 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.7		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	15.3		0.1	0.1	%			11/08/17 08:01	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.47-SL03-(0-0.77')-FD

Lab Sample ID: 240-87591-62

Date Collected: 10/31/17 10:23

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 83.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.3	U	61.0	29.3	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Aroclor-1221	28.1	U	61.0	28.1	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Aroclor-1232	19.5	U	61.0	19.5	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Aroclor-1242	24.4	U	61.0	24.4	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Aroclor-1248	748		61.0	20.7	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Aroclor-1254	17.1	U	61.0	17.1	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Aroclor-1260	22.0	U	61.0	22.0	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Aroclor-1262	9.76	U	61.0	9.76	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Aroclor-1268	24.4	U	61.0	24.4	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1
Polychlorinated biphenyls, Total	748		61.0	29.3	ug/Kg	☼	11/09/17 10:58	11/11/17 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		14 - 128	11/09/17 10:58	11/11/17 13:27	1
DCB Decachlorobiphenyl	81		10 - 132	11/09/17 10:58	11/11/17 13:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.6		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	16.4		0.1	0.1	%			11/08/17 08:01	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.47-SL01-(0-0.5')

Lab Sample ID: 240-87591-63

Date Collected: 10/31/17 10:04

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.1	U	56.4	27.1	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Aroclor-1221	25.9	U	56.4	25.9	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Aroclor-1232	18.0	U	56.4	18.0	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Aroclor-1242	22.6	U	56.4	22.6	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Aroclor-1248	200		56.4	19.2	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Aroclor-1254	15.8	U	56.4	15.8	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Aroclor-1260	20.3	U	56.4	20.3	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Aroclor-1262	9.02	U	56.4	9.02	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Aroclor-1268	22.6	U	56.4	22.6	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1
Polychlorinated biphenyls, Total	200		56.4	27.1	ug/Kg	☼	11/09/17 10:58	11/11/17 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		14 - 128	11/09/17 10:58	11/11/17 13:47	1
DCB Decachlorobiphenyl	88		10 - 132	11/09/17 10:58	11/11/17 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.9		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	15.1		0.1	0.1	%			11/08/17 08:01	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SL04-(0-0.50')

Lab Sample ID: 240-87591-64

Date Collected: 10/31/17 09:02

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.4	U	63.3	30.4	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1221	29.1	U	63.3	29.1	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1232	20.3	U	63.3	20.3	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1242	25.3	U	63.3	25.3	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1248	21.5	U	63.3	21.5	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1254	17.7	U	63.3	17.7	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1260	22.8	U	63.3	22.8	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1262	10.1	U	63.3	10.1	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Aroclor-1268	25.3	U	63.3	25.3	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1
Polychlorinated biphenyls, Total	30.4	U	63.3	30.4	ug/Kg	☼	11/09/17 10:58	11/11/17 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	75		14 - 128	11/09/17 10:58	11/11/17 14:07	1
DCB Decachlorobiphenyl	12	p	10 - 132	11/09/17 10:58	11/11/17 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.2		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	20.8		0.1	0.1	%			11/08/17 08:01	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SL04-(0.50-1.0')

Lab Sample ID: 240-87591-65

Date Collected: 10/31/17 09:06

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.6	U	61.8	29.6	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1221	28.4	U	61.8	28.4	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1232	19.8	U	61.8	19.8	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1242	24.7	U	61.8	24.7	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1248	21.0	U	61.8	21.0	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1254	17.3	U	61.8	17.3	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1260	22.2	U	61.8	22.2	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1262	9.88	U	61.8	9.88	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Aroclor-1268	24.7	U	61.8	24.7	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1
Polychlorinated biphenyls, Total	29.6	U	61.8	29.6	ug/Kg	☼	11/09/17 10:58	11/11/17 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	75		14 - 128	11/09/17 10:58	11/11/17 14:26	1
DCB Decachlorobiphenyl	87		10 - 132	11/09/17 10:58	11/11/17 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.2		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	19.8		0.1	0.1	%			11/08/17 08:01	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SL03-(0-0.69')

Lab Sample ID: 240-87591-66

Date Collected: 10/31/17 08:31

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 81.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	148	U	309	148	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Aroclor-1221	142	U	309	142	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Aroclor-1232	98.8	U	309	98.8	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Aroclor-1242	123	U	309	123	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Aroclor-1248	5000		309	105	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Aroclor-1254	86.4	U	309	86.4	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Aroclor-1260	111	U	309	111	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Aroclor-1262	49.4	U	309	49.4	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Aroclor-1268	123	U	309	123	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5
Polychlorinated biphenyls, Total	5000		309	148	ug/Kg	☼	11/09/17 10:58	11/11/17 14:46	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		14 - 128	11/09/17 10:58	11/11/17 14:46	5
DCB Decachlorobiphenyl	94	p	10 - 132	11/09/17 10:58	11/11/17 14:46	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.0		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	19.0		0.1	0.1	%			11/08/17 08:01	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SL03-(0-0.69')-FD

Lab Sample ID: 240-87591-67

Date Collected: 10/31/17 08:31

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	293	U	610	293	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
Aroclor-1221	281	U	610	281	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
Aroclor-1232	195	U	610	195	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
Aroclor-1242	244	U	610	244	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
Aroclor-1248	6090		610	207	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
Aroclor-1254	171	U	610	171	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
Aroclor-1260	389	J p	610	220	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
Aroclor-1262	97.6	U	610	97.6	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
Aroclor-1268	244	U	610	244	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10
Polychlorinated biphenyls, Total	6840		610	293	ug/Kg	☼	11/09/17 14:18	11/10/17 16:43	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		14 - 128	11/09/17 14:18	11/10/17 16:43	10
Tetrachloro-m-xylene	112		14 - 128	11/09/17 14:18	11/10/17 16:43	10
DCB Decachlorobiphenyl	119		10 - 132	11/09/17 14:18	11/10/17 16:43	10
DCB Decachlorobiphenyl	105		10 - 132	11/09/17 14:18	11/10/17 16:43	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.1		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	19.9		0.1	0.1	%			11/08/17 08:01	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SL03-(0.69-0.98')

Lab Sample ID: 240-87591-68

Date Collected: 10/31/17 08:37

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.8	U	55.9	26.8	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Aroclor-1221	25.7	U	55.9	25.7	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Aroclor-1232	17.9	U	55.9	17.9	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Aroclor-1242	22.4	U	55.9	22.4	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Aroclor-1248	579		55.9	19.0	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Aroclor-1254	15.7	U	55.9	15.7	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Aroclor-1260	20.1	U	55.9	20.1	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Aroclor-1262	8.95	U	55.9	8.95	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Aroclor-1268	22.4	U	55.9	22.4	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1
Polychlorinated biphenyls, Total	579		55.9	26.8	ug/Kg	☼	11/09/17 14:18	11/10/17 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		14 - 128	11/09/17 14:18	11/10/17 16:26	1
DCB Decachlorobiphenyl	86		10 - 132	11/09/17 14:18	11/10/17 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.3		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	12.7		0.1	0.1	%			11/08/17 08:01	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SL03-(0.98-1.17')

Lab Sample ID: 240-87591-69

Date Collected: 10/31/17 08:40

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 77.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	301	U	626	301	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
Aroclor-1221	288	U	626	288	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
Aroclor-1232	200	U	626	200	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
Aroclor-1242	250	U	626	250	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
Aroclor-1248	5020		626	213	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
Aroclor-1254	175	U	626	175	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
Aroclor-1260	774		626	225	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
Aroclor-1262	100	U	626	100	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
Aroclor-1268	250	U	626	250	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10
Polychlorinated biphenyls, Total	5790		626	301	ug/Kg	☼	11/10/17 10:03	11/14/17 08:02	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		14 - 128	11/10/17 10:03	11/14/17 08:02	10
DCB Decachlorobiphenyl	96		10 - 132	11/10/17 10:03	11/14/17 08:02	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.3		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	22.7		0.1	0.1	%			11/08/17 08:01	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SL03-(1.17-1.5')

Lab Sample ID: 240-87591-70

Date Collected: 10/31/17 08:44

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.2	U	58.8	28.2	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Aroclor-1221	27.1	U	58.8	27.1	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Aroclor-1232	18.8	U	58.8	18.8	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Aroclor-1242	23.5	U	58.8	23.5	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Aroclor-1248	114		58.8	20.0	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Aroclor-1254	16.5	U	58.8	16.5	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Aroclor-1260	21.2	U	58.8	21.2	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Aroclor-1262	9.42	U	58.8	9.42	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Aroclor-1268	23.5	U	58.8	23.5	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1
Polychlorinated biphenyls, Total	114		58.8	28.2	ug/Kg	☼	11/09/17 14:55	11/10/17 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		14 - 128	11/09/17 14:55	11/10/17 17:54	1
DCB Decachlorobiphenyl	84		10 - 132	11/09/17 14:55	11/10/17 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.7		0.1	0.1	%			11/08/17 08:01	1
Percent Moisture	12.3		0.1	0.1	%			11/08/17 08:01	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SL01-(0-0.5')

Lab Sample ID: 240-87591-71

Date Collected: 10/31/17 08:11

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 83.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.0	U	58.4	28.0	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Aroclor-1221	26.8	U	58.4	26.8	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Aroclor-1232	18.7	U	58.4	18.7	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Aroclor-1242	23.3	U	58.4	23.3	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Aroclor-1248	94.1	p	58.4	19.8	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Aroclor-1254	16.3	U	58.4	16.3	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Aroclor-1260	21.0	U	58.4	21.0	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Aroclor-1262	9.34	U	58.4	9.34	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Aroclor-1268	23.3	U	58.4	23.3	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1
Polychlorinated biphenyls, Total	94.1	p	58.4	28.0	ug/Kg	☼	11/09/17 14:18	11/10/17 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		14 - 128	11/09/17 14:18	11/10/17 17:01	1
DCB Decachlorobiphenyl	81		10 - 132	11/09/17 14:18	11/10/17 17:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.9		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	16.1		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SL01-(0.5-1.0')

Lab Sample ID: 240-87591-72

Date Collected: 10/31/17 08:17

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.7	U	59.7	28.7	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Aroclor-1221	27.5	U	59.7	27.5	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Aroclor-1232	19.1	U	59.7	19.1	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Aroclor-1242	23.9	U	59.7	23.9	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Aroclor-1248	126		59.7	20.3	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Aroclor-1254	16.7	U	59.7	16.7	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Aroclor-1260	21.5	U	59.7	21.5	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Aroclor-1262	9.55	U	59.7	9.55	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Aroclor-1268	23.9	U	59.7	23.9	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1
Polychlorinated biphenyls, Total	126		59.7	28.7	ug/Kg	☼	11/10/17 10:03	11/14/17 08:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		14 - 128	11/10/17 10:03	11/14/17 08:22	1
DCB Decachlorobiphenyl	90		10 - 132	11/10/17 10:03	11/14/17 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.1		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	12.9		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SL04-(0-0.5')

Lab Sample ID: 240-87591-73

Date Collected: 10/30/17 14:54

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.4	U	63.3	30.4	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Aroclor-1221	29.1	U	63.3	29.1	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Aroclor-1232	20.2	U	63.3	20.2	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Aroclor-1242	25.3	U	63.3	25.3	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Aroclor-1248	21.5	U	63.3	21.5	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Aroclor-1254	65.0	p	63.3	17.7	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Aroclor-1260	22.8	U	63.3	22.8	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Aroclor-1262	10.1	U	63.3	10.1	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Aroclor-1268	25.3	U	63.3	25.3	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1
Polychlorinated biphenyls, Total	65.0	p	63.3	30.4	ug/Kg	☼	11/08/17 13:17	11/10/17 07:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		14 - 128	11/08/17 13:17	11/10/17 07:58	1
DCB Decachlorobiphenyl	107		10 - 132	11/08/17 13:17	11/10/17 07:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.2		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	21.8		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SL04-(0.5-1.0')

Lab Sample ID: 240-87591-74

Date Collected: 10/30/17 15:01

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.1	U	60.7	29.1	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Aroclor-1221	27.9	U	60.7	27.9	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Aroclor-1232	19.4	U	60.7	19.4	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Aroclor-1242	24.3	U	60.7	24.3	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Aroclor-1248	20.6	U	60.7	20.6	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Aroclor-1254	43.5	J p	60.7	17.0	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Aroclor-1260	21.9	U	60.7	21.9	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Aroclor-1262	9.71	U	60.7	9.71	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Aroclor-1268	24.3	U	60.7	24.3	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1
Polychlorinated biphenyls, Total	43.5	J p	60.7	29.1	ug/Kg	☼	11/08/17 13:17	11/10/17 08:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		14 - 128	11/08/17 13:17	11/10/17 08:19	1
DCB Decachlorobiphenyl	129		10 - 132	11/08/17 13:17	11/10/17 08:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.7		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	19.3		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SL04-(1.0-1.5")

Lab Sample ID: 240-87591-75

Date Collected: 10/30/17 15:20

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.1	U	60.7	29.1	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1221	27.9	U	60.7	27.9	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1232	19.4	U	60.7	19.4	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1242	24.3	U	60.7	24.3	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1248	20.6	U	60.7	20.6	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1254	17.0	U	60.7	17.0	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1260	21.9	U	60.7	21.9	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1262	9.72	U	60.7	9.72	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Aroclor-1268	24.3	U	60.7	24.3	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1
Polychlorinated biphenyls, Total	29.1	U	60.7	29.1	ug/Kg	☼	11/08/17 13:17	11/10/17 08:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	88		14 - 128	11/08/17 13:17	11/10/17 08:38	1
DCB Decachlorobiphenyl	103		10 - 132	11/08/17 13:17	11/10/17 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.5		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	17.5		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SL04-(1.5-2.0')

Lab Sample ID: 240-87591-76

Date Collected: 10/30/17 15:27

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.4	U	59.1	28.4	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1221	27.2	U	59.1	27.2	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1232	18.9	U	59.1	18.9	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1242	23.6	U	59.1	23.6	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1248	20.1	U	59.1	20.1	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1254	16.5	U	59.1	16.5	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1260	21.3	U	59.1	21.3	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1262	9.45	U	59.1	9.45	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Aroclor-1268	23.6	U	59.1	23.6	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1
Polychlorinated biphenyls, Total	28.4	U	59.1	28.4	ug/Kg	☼	11/08/17 13:17	11/10/17 08:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	89		14 - 128	11/08/17 13:17	11/10/17 08:58	1
DCB Decachlorobiphenyl	124		10 - 132	11/08/17 13:17	11/10/17 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.0		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SL03-(0.0.5')

Lab Sample ID: 240-87591-77

Date Collected: 10/30/17 16:30

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 75.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	31.2	U	65.0	31.2	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1221	29.9	U	65.0	29.9	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1232	20.8	U	65.0	20.8	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1242	26.0	U	65.0	26.0	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1248	22.1	U	65.0	22.1	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1254	18.2	U	65.0	18.2	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1260	23.4	U	65.0	23.4	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1262	10.4	U	65.0	10.4	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Aroclor-1268	26.0	U	65.0	26.0	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1
Polychlorinated biphenyls, Total	31.2	U	65.0	31.2	ug/Kg	☼	11/08/17 13:17	11/10/17 09:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		14 - 128	11/08/17 13:17	11/10/17 09:18	1
DCB Decachlorobiphenyl	147	X	10 - 132	11/08/17 13:17	11/10/17 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	75.2		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	24.8		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-78

Date Collected: 10/30/17 16:51

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.8	U	62.2	29.8	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1221	28.6	U	62.2	28.6	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1232	19.9	U	62.2	19.9	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1242	24.9	U	62.2	24.9	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1248	21.1	U	62.2	21.1	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1254	17.4	U	62.2	17.4	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1260	22.4	U	62.2	22.4	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1262	9.95	U	62.2	9.95	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Aroclor-1268	24.9	U	62.2	24.9	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1
Polychlorinated biphenyls, Total	29.8	U	62.2	29.8	ug/Kg	☼	11/08/17 13:17	11/10/17 09:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	90		14 - 128	11/08/17 13:17	11/10/17 09:38	1
DCB Decachlorobiphenyl	204	X	10 - 132	11/08/17 13:17	11/10/17 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.2		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	20.8		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SL02-(0-0.5')

Lab Sample ID: 240-87591-79

Date Collected: 10/30/17 16:01

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	150	U	312	150	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
Aroclor-1221	143	U	312	143	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
Aroclor-1232	99.8	U	312	99.8	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
Aroclor-1242	125	U	312	125	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
Aroclor-1248	4140		312	106	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
Aroclor-1254	87.3	U	312	87.3	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
Aroclor-1260	502		312	112	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
Aroclor-1262	49.9	U	312	49.9	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
Aroclor-1268	125	U	312	125	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5
Polychlorinated biphenyls, Total	4640		312	150	ug/Kg	☼	11/08/17 13:17	11/10/17 09:57	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		14 - 128	11/08/17 13:17	11/10/17 09:57	5
DCB Decachlorobiphenyl	269	X	10 - 132	11/08/17 13:17	11/10/17 09:57	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.7		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	21.3		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SL02-(0-0.5')-FD

Lab Sample ID: 240-87591-80

Date Collected: 10/30/17 16:01

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 81.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	148	U	308	148	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
Aroclor-1221	141	U	308	141	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
Aroclor-1232	98.4	U	308	98.4	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
Aroclor-1242	123	U	308	123	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
Aroclor-1248	4710		308	105	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
Aroclor-1254	86.1	U	308	86.1	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
Aroclor-1260	541		308	111	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
Aroclor-1262	49.2	U	308	49.2	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
Aroclor-1268	123	U	308	123	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5
Polychlorinated biphenyls, Total	5250		308	148	ug/Kg	☼	11/08/17 13:17	11/10/17 10:17	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		14 - 128	11/08/17 13:17	11/10/17 10:17	5
DCB Decachlorobiphenyl	160	X	10 - 132	11/08/17 13:17	11/10/17 10:17	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	19.0		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SL02-(0.5-1.0')

Lab Sample ID: 240-87591-81

Date Collected: 10/30/17 16:09

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 88.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.0	U	56.2	27.0	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
Aroclor-1221	25.9	U	56.2	25.9	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
Aroclor-1232	18.0	U	56.2	18.0	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
Aroclor-1242	22.5	U	56.2	22.5	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
Aroclor-1248	687		56.2	19.1	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
Aroclor-1254	15.7	U	56.2	15.7	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
Aroclor-1260	85.3		56.2	20.2	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
Aroclor-1262	9.00	U	56.2	9.00	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
Aroclor-1268	22.5	U	56.2	22.5	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1
Polychlorinated biphenyls, Total	772		56.2	27.0	ug/Kg	☼	11/08/17 13:17	11/10/17 10:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		14 - 128	11/08/17 13:17	11/10/17 10:37	1
DCB Decachlorobiphenyl	106		10 - 132	11/08/17 13:17	11/10/17 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.3		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	11.7		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SL02-(1.0-1.5')

Lab Sample ID: 240-87591-82

Date Collected: 10/30/17 16:10

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 83.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	58.2	U	121	58.2	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
Aroclor-1221	55.8	U	121	55.8	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
Aroclor-1232	38.8	U	121	38.8	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
Aroclor-1242	48.5	U	121	48.5	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
Aroclor-1248	1600		121	41.2	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
Aroclor-1254	33.9	U	121	33.9	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
Aroclor-1260	168		121	43.6	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
Aroclor-1262	19.4	U	121	19.4	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
Aroclor-1268	48.5	U	121	48.5	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2
Polychlorinated biphenyls, Total	1770		121	58.2	ug/Kg	☼	11/08/17 13:17	11/10/17 14:56	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		14 - 128	11/08/17 13:17	11/10/17 14:56	2
DCB Decachlorobiphenyl	105		10 - 132	11/08/17 13:17	11/10/17 14:56	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	17.0		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL03-(0-0.5')

Lab Sample ID: 240-87591-83

Date Collected: 10/30/17 12:20

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 81.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	286	U	596	286	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
Aroclor-1221	274	U	596	274	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
Aroclor-1232	191	U	596	191	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
Aroclor-1242	238	U	596	238	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
Aroclor-1248	7150		596	203	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
Aroclor-1254	167	U	596	167	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
Aroclor-1260	843		596	215	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
Aroclor-1262	95.4	U	596	95.4	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
Aroclor-1268	238	U	596	238	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10
Polychlorinated biphenyls, Total	7990		596	286	ug/Kg	☼	11/08/17 13:17	11/10/17 15:16	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		14 - 128	11/08/17 13:17	11/10/17 15:16	10
DCB Decachlorobiphenyl	169	X	10 - 132	11/08/17 13:17	11/10/17 15:16	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	19.0		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL03-(0.5-0.97')

Lab Sample ID: 240-87591-84

Date Collected: 10/30/17 12:33

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 91.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	51.9	U	108	51.9	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
Aroclor-1221	49.7	U	108	49.7	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
Aroclor-1232	34.6	U	108	34.6	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
Aroclor-1242	43.2	U	108	43.2	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
Aroclor-1248	1930		108	36.7	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
Aroclor-1254	30.3	U	108	30.3	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
Aroclor-1260	129		108	38.9	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
Aroclor-1262	17.3	U	108	17.3	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
Aroclor-1268	43.2	U	108	43.2	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2
Polychlorinated biphenyls, Total	2060		108	51.9	ug/Kg	☼	11/08/17 13:17	11/10/17 11:37	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		14 - 128	11/08/17 13:17	11/10/17 11:37	2
DCB Decachlorobiphenyl	131		10 - 132	11/08/17 13:17	11/10/17 11:37	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91.9		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	8.1		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL03-(0.97-1..47')

Lab Sample ID: 240-87591-85

Date Collected: 10/30/17 12:45

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 83.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2900	U	6030	2900	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
Aroclor-1221	2770	U	6030	2770	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
Aroclor-1232	1930	U	6030	1930	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
Aroclor-1242	2410	U	6030	2410	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
Aroclor-1248	66000		6030	2050	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
Aroclor-1254	1690	U	6030	1690	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
Aroclor-1260	2720	J F1	6030	2170	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
Aroclor-1262	965	U	6030	965	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
Aroclor-1268	2410	U	6030	2410	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100
Polychlorinated biphenyls, Total	68700		6030	2900	ug/Kg	☼	11/08/17 13:17	11/10/17 11:56	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		14 - 128	11/08/17 13:17	11/10/17 11:56	100
DCB Decachlorobiphenyl	178	X	10 - 132	11/08/17 13:17	11/10/17 11:56	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.6		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	16.4		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL03-(1.5-2.0')

Lab Sample ID: 240-87591-86

Date Collected: 10/30/17 12:53

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	3000	U	6240	3000	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
Aroclor-1221	2870	U	6240	2870	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
Aroclor-1232	2000	U	6240	2000	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
Aroclor-1242	2500	U	6240	2500	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
Aroclor-1248	78300		6240	2120	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
Aroclor-1254	1750	U	6240	1750	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
Aroclor-1260	4300	J	6240	2250	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
Aroclor-1262	999	U	6240	999	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
Aroclor-1268	2500	U	6240	2500	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100
Polychlorinated biphenyls, Total	82600		6240	3000	ug/Kg	☼	11/08/17 13:17	11/10/17 12:57	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		14 - 128	11/08/17 13:17	11/10/17 12:57	100
DCB Decachlorobiphenyl	110		10 - 132	11/08/17 13:17	11/10/17 12:57	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.4		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	19.6		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL04-(0-0.67)

Lab Sample ID: 240-87591-87

Date Collected: 10/30/17 13:18

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 83.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.9	U	60.1	28.9	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1221	27.6	U	60.1	27.6	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1232	19.2	U	60.1	19.2	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1242	24.0	U	60.1	24.0	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1248	20.4	U	60.1	20.4	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1254	16.8	U	60.1	16.8	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1260	21.6	U	60.1	21.6	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1262	9.62	U	60.1	9.62	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Aroclor-1268	24.0	U	60.1	24.0	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1
Polychlorinated biphenyls, Total	28.9	U	60.1	28.9	ug/Kg	☼	11/08/17 13:17	11/10/17 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		14 - 128	11/08/17 13:17	11/10/17 13:17	1
DCB Decachlorobiphenyl	112		10 - 132	11/08/17 13:17	11/10/17 13:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.3		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	16.7		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL04-(0.67-0.86)

Lab Sample ID: 240-87591-88

Date Collected: 10/30/17 13:27

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.8	U	60.0	28.8	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1221	27.6	U	60.0	27.6	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1232	19.2	U	60.0	19.2	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1242	24.0	U	60.0	24.0	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1248	20.4	U	60.0	20.4	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1254	16.8	U	60.0	16.8	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1260	21.6	U	60.0	21.6	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1262	9.60	U	60.0	9.60	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Aroclor-1268	24.0	U	60.0	24.0	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1
Polychlorinated biphenyls, Total	28.8	U	60.0	28.8	ug/Kg	☼	11/08/17 13:17	11/10/17 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	83		14 - 128	11/08/17 13:17	11/10/17 13:36	1
DCB Decachlorobiphenyl	161	X	10 - 132	11/08/17 13:17	11/10/17 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.2		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	17.8		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL04-(0.86-1.36)

Lab Sample ID: 240-87591-89

Date Collected: 10/30/17 13:39

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.6	U	61.7	29.6	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1221	28.4	U	61.7	28.4	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1232	19.8	U	61.7	19.8	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1242	24.7	U	61.7	24.7	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1248	21.0	U	61.7	21.0	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1254	17.3	U	61.7	17.3	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1260	22.2	U	61.7	22.2	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1262	9.88	U	61.7	9.88	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Aroclor-1268	24.7	U	61.7	24.7	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1
Polychlorinated biphenyls, Total	29.6	U	61.7	29.6	ug/Kg	☼	11/10/17 10:03	11/14/17 08:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	74		14 - 128	11/10/17 10:03	11/14/17 08:42	1
DCB Decachlorobiphenyl	93		10 - 132	11/10/17 10:03	11/14/17 08:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.5		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	19.5		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL04-(1.5-2.0')

Lab Sample ID: 240-87591-90

Date Collected: 10/30/17 13:44

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.3	U	61.1	29.3	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1221	28.1	U	61.1	28.1	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1232	19.6	U	61.1	19.6	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1242	24.5	U	61.1	24.5	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1248	20.8	U	61.1	20.8	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1254	17.1	U	61.1	17.1	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1260	22.0	U	61.1	22.0	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1262	9.78	U	61.1	9.78	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Aroclor-1268	24.5	U	61.1	24.5	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1
Polychlorinated biphenyls, Total	29.3	U	61.1	29.3	ug/Kg	☼	11/10/17 10:03	11/14/17 09:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	72		14 - 128	11/10/17 10:03	11/14/17 09:01	1
DCB Decachlorobiphenyl	86		10 - 132	11/10/17 10:03	11/14/17 09:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.4		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	19.6		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL01-(0-0.5')

Lab Sample ID: 240-87591-91

Date Collected: 10/30/17 11:07

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.0	U	62.5	30.0	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
Aroclor-1221	28.8	U	62.5	28.8	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
Aroclor-1232	20.0	U	62.5	20.0	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
Aroclor-1242	25.0	U	62.5	25.0	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
Aroclor-1248	166		62.5	21.3	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
Aroclor-1254	17.5	U	62.5	17.5	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
Aroclor-1260	28.5	J p	62.5	22.5	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
Aroclor-1262	10.0	U	62.5	10.0	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
Aroclor-1268	25.0	U	62.5	25.0	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1
Polychlorinated biphenyls, Total	211		62.5	30.0	ug/Kg	☼	11/10/17 10:03	11/14/17 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		14 - 128	11/10/17 10:03	11/14/17 14:59	1
Tetrachloro-m-xylene	66		14 - 128	11/10/17 10:03	11/14/17 14:59	1
DCB Decachlorobiphenyl	95		10 - 132	11/10/17 10:03	11/14/17 14:59	1
DCB Decachlorobiphenyl	91		10 - 132	11/10/17 10:03	11/14/17 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.8		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	21.2		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL01-(0.5-1.0')

Lab Sample ID: 240-87591-92

Date Collected: 10/30/17 11:16

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 89.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.2	U	54.6	26.2	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1221	25.1	U	54.6	25.1	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1232	17.5	U	54.6	17.5	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1242	21.8	U	54.6	21.8	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1248	18.6	U	54.6	18.6	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1254	15.3	U	54.6	15.3	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1260	19.6	U	54.6	19.6	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1262	8.73	U	54.6	8.73	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Aroclor-1268	21.8	U	54.6	21.8	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1
Polychlorinated biphenyls, Total	26.2	U	54.6	26.2	ug/Kg	☼	11/10/17 10:03	11/14/17 09:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	62		14 - 128	11/10/17 10:03	11/14/17 09:21	1
DCB Decachlorobiphenyl	83		10 - 132	11/10/17 10:03	11/14/17 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.6		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	10.4		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL01-(1.0-1.86')

Lab Sample ID: 240-87591-93

Date Collected: 10/30/17 11:22

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.6	U	63.7	30.6	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1221	29.3	U	63.7	29.3	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1232	20.4	U	63.7	20.4	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1242	25.5	U	63.7	25.5	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1248	21.6	U	63.7	21.6	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1254	17.8	U	63.7	17.8	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1260	22.9	U	63.7	22.9	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1262	10.2	U	63.7	10.2	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Aroclor-1268	25.5	U	63.7	25.5	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1
Polychlorinated biphenyls, Total	30.6	U	63.7	30.6	ug/Kg	☼	11/10/17 10:03	11/14/17 09:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	78		14 - 128	11/10/17 10:03	11/14/17 09:41	1
DCB Decachlorobiphenyl	97		10 - 132	11/10/17 10:03	11/14/17 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.1		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	20.9		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL01-(1.86-2.0')

Lab Sample ID: 240-87591-94

Date Collected: 10/30/17 11:34

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.6	U	61.8	29.6	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1221	28.4	U	61.8	28.4	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1232	19.8	U	61.8	19.8	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1242	24.7	U	61.8	24.7	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1248	21.0	U	61.8	21.0	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1254	17.3	U	61.8	17.3	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1260	22.2	U	61.8	22.2	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1262	9.88	U	61.8	9.88	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Aroclor-1268	24.7	U	61.8	24.7	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1
Polychlorinated biphenyls, Total	29.6	U	61.8	29.6	ug/Kg	☼	11/10/17 10:03	11/14/17 10:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	70		14 - 128	11/10/17 10:03	11/14/17 10:02	1
DCB Decachlorobiphenyl	82		10 - 132	11/10/17 10:03	11/14/17 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.7		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	21.3		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.37-SL03-(0-0.27')

Lab Sample ID: 240-87591-95

Date Collected: 11/02/17 09:25

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.3	U	63.0	30.3	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
Aroclor-1221	29.0	U	63.0	29.0	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
Aroclor-1232	20.2	U	63.0	20.2	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
Aroclor-1242	25.2	U	63.0	25.2	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
Aroclor-1248	771		63.0	21.4	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
Aroclor-1254	17.6	U	63.0	17.6	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
Aroclor-1260	115		63.0	22.7	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
Aroclor-1262	10.1	U	63.0	10.1	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
Aroclor-1268	25.2	U	63.0	25.2	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1
Polychlorinated biphenyls, Total	886		63.0	30.3	ug/Kg	☼	11/10/17 10:03	11/14/17 10:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	11/10/17 10:03	11/14/17 10:22	1
DCB Decachlorobiphenyl	91		10 - 132	11/10/17 10:03	11/14/17 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.6		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	20.4		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.37-SL03-(0.27-0.92')

Lab Sample ID: 240-87591-96

Date Collected: 11/02/17 09:26

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 89.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.5	U	55.2	26.5	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Aroclor-1221	25.4	U	55.2	25.4	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Aroclor-1232	17.7	U	55.2	17.7	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Aroclor-1242	22.1	U	55.2	22.1	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Aroclor-1248	159		55.2	18.8	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Aroclor-1254	15.5	U	55.2	15.5	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Aroclor-1260	19.9	U	55.2	19.9	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Aroclor-1262	8.83	U	55.2	8.83	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Aroclor-1268	22.1	U	55.2	22.1	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1
Polychlorinated biphenyls, Total	159		55.2	26.5	ug/Kg	☼	11/10/17 10:03	11/14/17 10:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		14 - 128	11/10/17 10:03	11/14/17 10:41	1
DCB Decachlorobiphenyl	91		10 - 132	11/10/17 10:03	11/14/17 10:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.8		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	10.2		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.37-SL03-(0.92-1.07')

Lab Sample ID: 240-87591-97

Date Collected: 11/02/17 09:28

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.6	U	61.7	29.6	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
Aroclor-1221	28.4	U	61.7	28.4	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
Aroclor-1232	19.8	U	61.7	19.8	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
Aroclor-1242	24.7	U	61.7	24.7	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
Aroclor-1248	237		61.7	21.0	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
Aroclor-1254	17.3	U	61.7	17.3	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
Aroclor-1260	28.9	J	61.7	22.2	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
Aroclor-1262	9.88	U	61.7	9.88	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
Aroclor-1268	24.7	U	61.7	24.7	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1
Polychlorinated biphenyls, Total	266		61.7	29.6	ug/Kg	☼	11/10/17 10:03	11/14/17 11:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		14 - 128	11/10/17 10:03	11/14/17 11:01	1
DCB Decachlorobiphenyl	82		10 - 132	11/10/17 10:03	11/14/17 11:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.6		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	17.4		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.37-SL03-(1.07-2.0')

Lab Sample ID: 240-87591-98

Date Collected: 11/02/17 09:30

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 88.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.6	U	57.4	27.6	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Aroclor-1221	26.4	U	57.4	26.4	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Aroclor-1232	18.4	U	57.4	18.4	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Aroclor-1242	23.0	U	57.4	23.0	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Aroclor-1248	189		57.4	19.5	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Aroclor-1254	16.1	U	57.4	16.1	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Aroclor-1260	20.7	U	57.4	20.7	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Aroclor-1262	9.19	U	57.4	9.19	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Aroclor-1268	23.0	U	57.4	23.0	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1
Polychlorinated biphenyls, Total	189		57.4	27.6	ug/Kg	☼	11/10/17 10:03	11/14/17 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/10/17 10:03	11/14/17 11:20	1
DCB Decachlorobiphenyl	94		10 - 132	11/10/17 10:03	11/14/17 11:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.9		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	11.1		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.49-SL04-(0-0.5')

Lab Sample ID: 240-87591-99

Date Collected: 11/01/17 14:10

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.3	U	61.1	29.3	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Aroclor-1221	28.1	U	61.1	28.1	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Aroclor-1232	19.5	U	61.1	19.5	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Aroclor-1242	24.4	U	61.1	24.4	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Aroclor-1248	20.8	U	61.1	20.8	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Aroclor-1254	33.6	J	61.1	17.1	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Aroclor-1260	22.0	U	61.1	22.0	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Aroclor-1262	9.77	U	61.1	9.77	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Aroclor-1268	24.4	U	61.1	24.4	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1
Polychlorinated biphenyls, Total	33.6	J	61.1	29.3	ug/Kg	☼	11/10/17 10:03	11/14/17 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		14 - 128	11/10/17 10:03	11/14/17 11:40	1
DCB Decachlorobiphenyl	79		10 - 132	11/10/17 10:03	11/14/17 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	18.0		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.49-SL04-(0.5-1.0')

Lab Sample ID: 240-87591-100

Date Collected: 11/01/17 14:17

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.2	U	56.7	27.2	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Aroclor-1221	26.1	U	56.7	26.1	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Aroclor-1232	18.1	U	56.7	18.1	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Aroclor-1242	22.7	U	56.7	22.7	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Aroclor-1248	19.3	U	56.7	19.3	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Aroclor-1254	19.6	J	56.7	15.9	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Aroclor-1260	20.4	U	56.7	20.4	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Aroclor-1262	9.07	U	56.7	9.07	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Aroclor-1268	22.7	U	56.7	22.7	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1
Polychlorinated biphenyls, Total	27.2	U	56.7	27.2	ug/Kg	☼	11/10/17 10:03	11/14/17 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	11/10/17 10:03	11/14/17 12:00	1
DCB Decachlorobiphenyl	85	p	10 - 132	11/10/17 10:03	11/14/17 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.8		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.2		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.49-SL04-(1.0-1.81')

Lab Sample ID: 240-87591-101

Date Collected: 11/01/17 14:27

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.6	U	57.6	27.6	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1221	26.5	U	57.6	26.5	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1232	18.4	U	57.6	18.4	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1242	23.0	U	57.6	23.0	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1248	19.6	U	57.6	19.6	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1254	16.1	U	57.6	16.1	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1260	20.7	U	57.6	20.7	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1262	9.22	U	57.6	9.22	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Aroclor-1268	23.0	U	57.6	23.0	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1
Polychlorinated biphenyls, Total	27.6	U	57.6	27.6	ug/Kg	☼	11/10/17 10:03	11/14/17 12:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	67		14 - 128	11/10/17 10:03	11/14/17 12:20	1
DCB Decachlorobiphenyl	85	p	10 - 132	11/10/17 10:03	11/14/17 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.0		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.49-SL04-(1.81-2.0')

Lab Sample ID: 240-87591-102

Date Collected: 11/01/17 14:33

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.6	U	57.6	27.6	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1221	26.5	U	57.6	26.5	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1232	18.4	U	57.6	18.4	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1242	23.0	U	57.6	23.0	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1248	19.6	U	57.6	19.6	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1254	16.1	U	57.6	16.1	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1260	20.7	U	57.6	20.7	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1262	9.21	U	57.6	9.21	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Aroclor-1268	23.0	U	57.6	23.0	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1
Polychlorinated biphenyls, Total	27.6	U	57.6	27.6	ug/Kg	☼	11/10/17 10:03	11/14/17 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	69		14 - 128	11/10/17 10:03	11/14/17 12:39	1
DCB Decachlorobiphenyl	88		10 - 132	11/10/17 10:03	11/14/17 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	13.0		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SL02-(0-0.5)

Lab Sample ID: 240-87591-103

Date Collected: 10/31/17 14:50

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 77.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	317	U	659	317	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Aroclor-1221	303	U	659	303	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Aroclor-1232	211	U	659	211	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Aroclor-1242	264	U	659	264	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Aroclor-1248	1440		659	224	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Aroclor-1254	185	U	659	185	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Aroclor-1260	237	U	659	237	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Aroclor-1262	106	U	659	106	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Aroclor-1268	264	U	659	264	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10
Polychlorinated biphenyls, Total	1440		659	317	ug/Kg	☼	11/10/17 10:03	11/14/17 12:58	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		14 - 128	11/10/17 10:03	11/14/17 12:58	10
DCB Decachlorobiphenyl	128	p	10 - 132	11/10/17 10:03	11/14/17 12:58	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	23.0		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SL02-(0.5-1.0')

Lab Sample ID: 240-87591-104

Date Collected: 10/31/17 14:57

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 72.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	32.5	U	67.6	32.5	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
Aroclor-1221	31.1	U	67.6	31.1	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
Aroclor-1232	21.6	U	67.6	21.6	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
Aroclor-1242	27.0	U	67.6	27.0	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
Aroclor-1248	1810		67.6	23.0	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
Aroclor-1254	18.9	U	67.6	18.9	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
Aroclor-1260	122		67.6	24.3	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
Aroclor-1262	10.8	U	67.6	10.8	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
Aroclor-1268	27.0	U	67.6	27.0	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1
Polychlorinated biphenyls, Total	1930		67.6	32.5	ug/Kg	☼	11/10/17 08:32	11/14/17 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	11/10/17 08:32	11/14/17 11:37	1
DCB Decachlorobiphenyl	94		10 - 132	11/10/17 08:32	11/14/17 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	72.5		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	27.5		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SL02-(1.0-1.5')

Lab Sample ID: 240-87591-105

Date Collected: 10/31/17 15:04

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 75.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	64.2	U	134	64.2	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
Aroclor-1221	61.5	U	134	61.5	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
Aroclor-1232	42.8	U	134	42.8	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
Aroclor-1242	53.5	U	134	53.5	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
Aroclor-1248	2290		134	45.5	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
Aroclor-1254	37.4	U	134	37.4	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
Aroclor-1260	145		134	48.1	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
Aroclor-1262	21.4	U	134	21.4	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
Aroclor-1268	53.5	U	134	53.5	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2
Polychlorinated biphenyls, Total	2440		134	64.2	ug/Kg	☼	11/10/17 08:32	11/15/17 07:49	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	11/10/17 08:32	11/15/17 07:49	2
DCB Decachlorobiphenyl	102		10 - 132	11/10/17 08:32	11/15/17 07:49	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	75.5		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	24.5		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.24-SL01-(0-0.87')

Lab Sample ID: 240-87591-106

Date Collected: 11/01/17 11:26

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	277	U	576	277	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
Aroclor-1221	265	U	576	265	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
Aroclor-1232	184	U	576	184	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
Aroclor-1242	231	U	576	231	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
Aroclor-1248	4240		576	196	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
Aroclor-1254	161	U	576	161	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
Aroclor-1260	407	J	576	207	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
Aroclor-1262	92.2	U	576	92.2	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
Aroclor-1268	231	U	576	231	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10
Polychlorinated biphenyls, Total	4650		576	277	ug/Kg	☼	11/10/17 08:32	11/15/17 08:08	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	11/10/17 08:32	11/15/17 08:08	10
DCB Decachlorobiphenyl	108	p	10 - 132	11/10/17 08:32	11/15/17 08:08	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.4		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	12.6		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.24-SL01-(0.87-1.0')

Lab Sample ID: 240-87591-107

Date Collected: 11/01/17 11:44

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 91.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.3	U	54.9	26.3	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
Aroclor-1221	25.2	U	54.9	25.2	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
Aroclor-1232	17.6	U	54.9	17.6	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
Aroclor-1242	22.0	U	54.9	22.0	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
Aroclor-1248	662		54.9	18.7	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
Aroclor-1254	15.4	U	54.9	15.4	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
Aroclor-1260	52.8	J	54.9	19.8	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
Aroclor-1262	8.78	U	54.9	8.78	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
Aroclor-1268	22.0	U	54.9	22.0	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1
Polychlorinated biphenyls, Total	715		54.9	26.3	ug/Kg	☼	11/10/17 08:32	11/14/17 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		14 - 128	11/10/17 08:32	11/14/17 12:32	1
DCB Decachlorobiphenyl	77		10 - 132	11/10/17 08:32	11/14/17 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91.3		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	8.7		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.14-SL03-(0-0.5')

Lab Sample ID: 240-87591-108

Date Collected: 11/01/17 10:22

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	30.4	U	63.3	30.4	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1221	29.1	U	63.3	29.1	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1232	20.3	U	63.3	20.3	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1242	25.3	U	63.3	25.3	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1248	21.5	U	63.3	21.5	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1254	17.7	U	63.3	17.7	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1260	22.8	U	63.3	22.8	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1262	10.1	U	63.3	10.1	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Aroclor-1268	25.3	U	63.3	25.3	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1
Polychlorinated biphenyls, Total	30.4	U	63.3	30.4	ug/Kg	☼	11/10/17 08:32	11/14/17 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	71		14 - 128	11/10/17 08:32	11/14/17 12:51	1
DCB Decachlorobiphenyl	81		10 - 132	11/10/17 08:32	11/14/17 12:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.8		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	20.2		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.14-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-109

Date Collected: 11/01/17 10:29

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.5	U	57.3	27.5	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1221	26.3	U	57.3	26.3	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1232	18.3	U	57.3	18.3	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1242	22.9	U	57.3	22.9	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1248	19.5	U	57.3	19.5	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1254	16.0	U	57.3	16.0	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1260	20.6	U	57.3	20.6	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1262	9.16	U	57.3	9.16	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Aroclor-1268	22.9	U	57.3	22.9	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1
Polychlorinated biphenyls, Total	27.5	U	57.3	27.5	ug/Kg	☼	11/10/17 08:32	11/14/17 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	80		14 - 128	11/10/17 08:32	11/14/17 13:09	1
DCB Decachlorobiphenyl	99		10 - 132	11/10/17 08:32	11/14/17 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.1		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	14.9		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.14-SL03-(0.5-1.0')-FD

Lab Sample ID: 240-87591-110

Date Collected: 11/01/17 10:29

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.9	U	60.2	28.9	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1221	27.7	U	60.2	27.7	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1232	19.3	U	60.2	19.3	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1242	24.1	U	60.2	24.1	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1248	20.5	U	60.2	20.5	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1254	16.9	U	60.2	16.9	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1260	21.7	U	60.2	21.7	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1262	9.63	U	60.2	9.63	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Aroclor-1268	24.1	U	60.2	24.1	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1
Polychlorinated biphenyls, Total	28.9	U	60.2	28.9	ug/Kg	☼	11/10/17 08:32	11/14/17 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	82		14 - 128	11/10/17 08:32	11/14/17 13:27	1
DCB Decachlorobiphenyl	101		10 - 132	11/10/17 08:32	11/14/17 13:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.4		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.6		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.49-SL02-(0-0.5')

Lab Sample ID: 240-87591-111

Date Collected: 11/01/17 13:50

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.4	U	57.2	27.4	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
Aroclor-1221	26.3	U	57.2	26.3	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
Aroclor-1232	18.3	U	57.2	18.3	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
Aroclor-1242	22.9	U	57.2	22.9	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
Aroclor-1248	164		57.2	19.4	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
Aroclor-1254	16.0	U	57.2	16.0	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
Aroclor-1260	23.1	J	57.2	20.6	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
Aroclor-1262	9.14	U	57.2	9.14	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
Aroclor-1268	22.9	U	57.2	22.9	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1
Polychlorinated biphenyls, Total	187		57.2	27.4	ug/Kg	☼	11/10/17 08:32	11/14/17 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	11/10/17 08:32	11/14/17 13:46	1
DCB Decachlorobiphenyl	85		10 - 132	11/10/17 08:32	11/14/17 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.9		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.1		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.49-SL02-(0.5-1.0')

Lab Sample ID: 240-87591-112

Date Collected: 11/01/17 13:55

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.4	U	57.0	27.4	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Aroclor-1221	26.2	U	57.0	26.2	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Aroclor-1232	18.2	U	57.0	18.2	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Aroclor-1242	22.8	U	57.0	22.8	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Aroclor-1248	117		57.0	19.4	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Aroclor-1254	16.0	U	57.0	16.0	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Aroclor-1260	20.5	U	57.0	20.5	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Aroclor-1262	9.12	U	57.0	9.12	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Aroclor-1268	22.8	U	57.0	22.8	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1
Polychlorinated biphenyls, Total	117		57.0	27.4	ug/Kg	☼	11/10/17 08:32	11/14/17 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	11/10/17 08:32	11/14/17 14:04	1
DCB Decachlorobiphenyl	87		10 - 132	11/10/17 08:32	11/14/17 14:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.9		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	12.1		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.37-SL01-(0-0.9')

Lab Sample ID: 240-87591-113

Date Collected: 11/02/17 09:11

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.5	U	59.3	28.5	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1221	27.3	U	59.3	27.3	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1232	19.0	U	59.3	19.0	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1242	23.7	U	59.3	23.7	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1248	20.2	U	59.3	20.2	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1254	16.6	U	59.3	16.6	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1260	21.4	U	59.3	21.4	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1262	9.50	U	59.3	9.50	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Aroclor-1268	23.7	U	59.3	23.7	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1
Polychlorinated biphenyls, Total	28.5	U	59.3	28.5	ug/Kg	☼	11/10/17 08:32	11/14/17 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		14 - 128	11/10/17 08:32	11/14/17 14:23	1
DCB Decachlorobiphenyl	91		10 - 132	11/10/17 08:32	11/14/17 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.4		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	17.6		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.37-SL01-(0-0.9')-FD

Lab Sample ID: 240-87591-114

Date Collected: 11/02/17 09:11

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.0	U	60.5	29.0	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1221	27.8	U	60.5	27.8	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1232	19.4	U	60.5	19.4	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1242	24.2	U	60.5	24.2	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1248	20.6	U	60.5	20.6	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1254	16.9	U	60.5	16.9	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1260	21.8	U	60.5	21.8	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1262	9.68	U	60.5	9.68	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Aroclor-1268	24.2	U	60.5	24.2	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1
Polychlorinated biphenyls, Total	29.0	U	60.5	29.0	ug/Kg	☼	11/10/17 08:32	11/14/17 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	11/10/17 08:32	11/14/17 14:41	1
DCB Decachlorobiphenyl	86		10 - 132	11/10/17 08:32	11/14/17 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.2		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	17.8		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.03-SL03-(0-0.21')

Lab Sample ID: 240-87591-115

Date Collected: 10/31/17 17:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.6	U	61.7	29.6	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Aroclor-1221	28.4	U	61.7	28.4	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Aroclor-1232	19.7	U	61.7	19.7	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Aroclor-1242	24.7	U	61.7	24.7	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Aroclor-1248	72.2		61.7	21.0	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Aroclor-1254	17.3	U	61.7	17.3	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Aroclor-1260	22.2	U	61.7	22.2	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Aroclor-1262	9.87	U	61.7	9.87	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Aroclor-1268	24.7	U	61.7	24.7	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1
Polychlorinated biphenyls, Total	72.2		61.7	29.6	ug/Kg	☼	11/10/17 08:32	11/14/17 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	11/10/17 08:32	11/14/17 14:59	1
DCB Decachlorobiphenyl	82		10 - 132	11/10/17 08:32	11/14/17 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	20.0		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.03-SL03-(0.21-1.0')

Lab Sample ID: 240-87591-116

Date Collected: 10/31/17 17:13

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 90.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.4	U	57.2	27.4	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1221	26.3	U	57.2	26.3	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1232	18.3	U	57.2	18.3	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1242	22.9	U	57.2	22.9	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1248	19.4	U	57.2	19.4	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1254	16.0	U	57.2	16.0	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1260	20.6	U	57.2	20.6	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1262	9.15	U	57.2	9.15	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Aroclor-1268	22.9	U	57.2	22.9	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1
Polychlorinated biphenyls, Total	27.4	U	57.2	27.4	ug/Kg	☼	11/10/17 08:32	11/14/17 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	74		14 - 128	11/10/17 08:32	11/14/17 15:18	1
DCB Decachlorobiphenyl	84		10 - 132	11/10/17 08:32	11/14/17 15:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.6		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	9.4		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.82-SL03-(0-0.5')

Lab Sample ID: 240-87591-117

Date Collected: 10/31/17 16:11

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 90.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.9	U	56.1	26.9	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Aroclor-1221	25.8	U	56.1	25.8	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Aroclor-1232	17.9	U	56.1	17.9	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Aroclor-1242	22.4	U	56.1	22.4	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Aroclor-1248	70.4		56.1	19.1	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Aroclor-1254	15.7	U	56.1	15.7	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Aroclor-1260	20.2	U	56.1	20.2	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Aroclor-1262	8.97	U	56.1	8.97	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Aroclor-1268	22.4	U	56.1	22.4	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1
Polychlorinated biphenyls, Total	70.4		56.1	26.9	ug/Kg	☼	11/10/17 08:32	11/14/17 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		14 - 128	11/10/17 08:32	11/14/17 15:36	1
DCB Decachlorobiphenyl	84		10 - 132	11/10/17 08:32	11/14/17 15:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.1		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	9.9		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.82-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-118

Date Collected: 10/31/17 16:15

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 64.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	37.8	U	78.7	37.8	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
Aroclor-1221	36.2	U	78.7	36.2	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
Aroclor-1232	25.2	U	78.7	25.2	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
Aroclor-1242	31.5	U	78.7	31.5	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
Aroclor-1248	1120		78.7	26.8	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
Aroclor-1254	22.0	U	78.7	22.0	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
Aroclor-1260	84.8		78.7	28.3	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
Aroclor-1262	12.6	U	78.7	12.6	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
Aroclor-1268	31.5	U	78.7	31.5	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1
Polychlorinated biphenyls, Total	1200		78.7	37.8	ug/Kg	☼	11/10/17 08:32	11/14/17 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	11/10/17 08:32	11/14/17 15:54	1
DCB Decachlorobiphenyl	384	X	10 - 132	11/10/17 08:32	11/14/17 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	64.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	36.0		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SL04-(0-0.11')

Lab Sample ID: 240-87591-119

Date Collected: 10/31/17 15:39

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	31.1	U	64.9	31.1	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Aroclor-1221	29.8	U	64.9	29.8	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Aroclor-1232	20.8	U	64.9	20.8	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Aroclor-1242	26.0	U	64.9	26.0	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Aroclor-1248	54.7	J	64.9	22.1	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Aroclor-1254	18.2	U	64.9	18.2	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Aroclor-1260	23.4	U	64.9	23.4	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Aroclor-1262	10.4	U	64.9	10.4	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Aroclor-1268	26.0	U	64.9	26.0	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1
Polychlorinated biphenyls, Total	54.7	J	64.9	31.1	ug/Kg	☼	11/10/17 08:32	11/14/17 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		14 - 128	11/10/17 08:32	11/14/17 16:13	1
DCB Decachlorobiphenyl	99		10 - 132	11/10/17 08:32	11/14/17 16:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.1		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	21.9		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SL04-(0.11-0.47')

Lab Sample ID: 240-87591-120

Date Collected: 10/31/17 15:40

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.8	U	55.9	26.8	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Aroclor-1221	25.7	U	55.9	25.7	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Aroclor-1232	17.9	U	55.9	17.9	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Aroclor-1242	22.4	U	55.9	22.4	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Aroclor-1248	24.5	J	55.9	19.0	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Aroclor-1254	15.6	U	55.9	15.6	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Aroclor-1260	20.1	U	55.9	20.1	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Aroclor-1262	8.94	U	55.9	8.94	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Aroclor-1268	22.4	U	55.9	22.4	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1
Polychlorinated biphenyls, Total	26.8	U	55.9	26.8	ug/Kg	☼	11/10/17 08:32	11/14/17 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	11/10/17 08:32	11/14/17 16:31	1
DCB Decachlorobiphenyl	91		10 - 132	11/10/17 08:32	11/14/17 16:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.5		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	14.5		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SL04-(0.47-1.0')

Lab Sample ID: 240-87591-121

Date Collected: 10/31/17 15:46

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.4	U	59.2	28.4	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1221	27.2	U	59.2	27.2	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1232	18.9	U	59.2	18.9	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1242	23.7	U	59.2	23.7	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1248	20.1	U	59.2	20.1	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1254	16.6	U	59.2	16.6	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1260	21.3	U	59.2	21.3	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1262	9.47	U	59.2	9.47	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Aroclor-1268	23.7	U	59.2	23.7	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1
Polychlorinated biphenyls, Total	28.4	U	59.2	28.4	ug/Kg	☼	11/10/17 08:32	11/14/17 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		14 - 128	11/10/17 08:32	11/14/17 16:49	1
DCB Decachlorobiphenyl	87		10 - 132	11/10/17 08:32	11/14/17 16:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.9		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.1		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.49-SL01-(0-0.5')

Lab Sample ID: 240-87591-122

Date Collected: 11/01/17 13:40

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 86.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.3	U	56.9	27.3	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1221	26.2	U	56.9	26.2	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1232	18.2	U	56.9	18.2	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1242	22.8	U	56.9	22.8	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1248	19.3	U	56.9	19.3	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1254	15.9	U	56.9	15.9	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1260	20.5	U	56.9	20.5	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1262	9.10	U	56.9	9.10	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Aroclor-1268	22.8	U	56.9	22.8	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1
Polychlorinated biphenyls, Total	27.3	U	56.9	27.3	ug/Kg	☼	11/10/17 08:32	11/14/17 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	79		14 - 128	11/10/17 08:32	11/14/17 18:03	1
DCB Decachlorobiphenyl	90		10 - 132	11/10/17 08:32	11/14/17 18:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	14.0		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.49-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-123

Date Collected: 11/01/17 13:40

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.9	U	58.1	27.9	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1221	26.7	U	58.1	26.7	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1232	18.6	U	58.1	18.6	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1242	23.2	U	58.1	23.2	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1248	19.8	U	58.1	19.8	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1254	16.3	U	58.1	16.3	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1260	20.9	U	58.1	20.9	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1262	9.30	U	58.1	9.30	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Aroclor-1268	23.2	U	58.1	23.2	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1
Polychlorinated biphenyls, Total	27.9	U	58.1	27.9	ug/Kg	☼	11/10/17 08:32	11/14/17 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		14 - 128	11/10/17 08:32	11/14/17 18:21	1
DCB Decachlorobiphenyl	88		10 - 132	11/10/17 08:32	11/14/17 18:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.0		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.0		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.24-SL03-(0-0.5')

Lab Sample ID: 240-87591-124

Date Collected: 11/01/17 12:03

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.5	U	59.4	28.5	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1221	27.3	U	59.4	27.3	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1232	19.0	U	59.4	19.0	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1242	23.8	U	59.4	23.8	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1248	20.2	U	59.4	20.2	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1254	16.6	U	59.4	16.6	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1260	21.4	U	59.4	21.4	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1262	9.50	U	59.4	9.50	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Aroclor-1268	23.8	U	59.4	23.8	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1
Polychlorinated biphenyls, Total	28.5	U	59.4	28.5	ug/Kg	☼	11/10/17 09:13	11/13/17 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	81		14 - 128	11/10/17 09:13	11/13/17 18:12	1
DCB Decachlorobiphenyl	108		10 - 132	11/10/17 09:13	11/13/17 18:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.3		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.7		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.82-SL01-(0-0.22')

Lab Sample ID: 240-87591-125

Date Collected: 10/31/17 16:04

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.6	U	59.5	28.6	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
Aroclor-1221	27.4	U	59.5	27.4	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
Aroclor-1232	19.1	U	59.5	19.1	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
Aroclor-1242	23.8	U	59.5	23.8	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
Aroclor-1248	339		59.5	20.2	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
Aroclor-1254	16.7	U	59.5	16.7	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
Aroclor-1260	58.2	J	59.5	21.4	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
Aroclor-1262	9.53	U	59.5	9.53	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
Aroclor-1268	23.8	U	59.5	23.8	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1
Polychlorinated biphenyls, Total	397		59.5	28.6	ug/Kg	☼	11/10/17 09:13	11/13/17 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		14 - 128	11/10/17 09:13	11/13/17 18:29	1
DCB Decachlorobiphenyl	87		10 - 132	11/10/17 09:13	11/13/17 18:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.1		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.9		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.82-SL01-(0.22-0.5')

Lab Sample ID: 240-87591-126

Date Collected: 10/31/17 16:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 92.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.9	U	56.0	26.9	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
Aroclor-1221	25.8	U	56.0	25.8	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
Aroclor-1232	17.9	U	56.0	17.9	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
Aroclor-1242	22.4	U	56.0	22.4	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
Aroclor-1248	260		56.0	19.0	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
Aroclor-1254	15.7	U	56.0	15.7	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
Aroclor-1260	55.4	J	56.0	20.2	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
Aroclor-1262	8.96	U	56.0	8.96	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
Aroclor-1268	22.4	U	56.0	22.4	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1
Polychlorinated biphenyls, Total	315		56.0	26.9	ug/Kg	☼	11/10/17 09:13	11/13/17 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		14 - 128	11/10/17 09:13	11/13/17 19:40	1
DCB Decachlorobiphenyl	113		10 - 132	11/10/17 09:13	11/13/17 19:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.1		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	7.9		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.03-SL01-(0-0.5')

Lab Sample ID: 240-87591-127

Date Collected: 11/01/17 09:32

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.0	U	60.4	29.0	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1221	27.8	U	60.4	27.8	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1232	19.3	U	60.4	19.3	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1242	24.2	U	60.4	24.2	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1248	20.5	U	60.4	20.5	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1254	16.9	U	60.4	16.9	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1260	21.8	U	60.4	21.8	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1262	9.67	U	60.4	9.67	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Aroclor-1268	24.2	U	60.4	24.2	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1
Polychlorinated biphenyls, Total	29.0	U	60.4	29.0	ug/Kg	☼	11/10/17 09:13	11/13/17 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	98		14 - 128	11/10/17 09:13	11/13/17 19:58	1
DCB Decachlorobiphenyl	109		10 - 132	11/10/17 09:13	11/13/17 19:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.1		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.9		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.03-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-128

Date Collected: 11/01/17 09:32

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.3	U	59.0	28.3	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1221	27.1	U	59.0	27.1	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1232	18.9	U	59.0	18.9	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1242	23.6	U	59.0	23.6	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1248	20.0	U	59.0	20.0	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1254	16.5	U	59.0	16.5	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1260	21.2	U	59.0	21.2	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1262	9.43	U	59.0	9.43	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Aroclor-1268	23.6	U	59.0	23.6	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1
Polychlorinated biphenyls, Total	28.3	U	59.0	28.3	ug/Kg	☼	11/10/17 10:03	11/14/17 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	71		14 - 128	11/10/17 10:03	11/14/17 13:18	1
DCB Decachlorobiphenyl	95		10 - 132	11/10/17 10:03	11/14/17 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.6		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	15.4		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.14-SL01-(0-0.5')

Lab Sample ID: 240-87591-129

Date Collected: 11/01/17 10:01

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	137	U	285	137	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
Aroclor-1221	131	U	285	131	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
Aroclor-1232	91.4	U	285	91.4	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
Aroclor-1242	114	U	285	114	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
Aroclor-1248	2150		285	97.1	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
Aroclor-1254	79.9	U	285	79.9	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
Aroclor-1260	337		285	103	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
Aroclor-1262	45.7	U	285	45.7	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
Aroclor-1268	114	U	285	114	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5
Polychlorinated biphenyls, Total	2490		285	137	ug/Kg	☼	11/10/17 09:13	11/14/17 16:12	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		14 - 128	11/10/17 09:13	11/14/17 16:12	5
DCB Decachlorobiphenyl	99		10 - 132	11/10/17 09:13	11/14/17 16:12	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.6		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	12.4		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: WATER DRUM

Lab Sample ID: 240-87591-130

Date Collected: 11/01/17 16:26

Matrix: Water

Date Received: 11/07/17 17:00

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.192	U	0.385	0.192	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1221	0.346	U	0.385	0.346	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1232	0.260	U	0.385	0.260	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1242	0.240	U	0.385	0.240	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1248	0.192	U	0.385	0.192	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1254	0.125	U	0.385	0.125	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1260	0.154	U	0.385	0.154	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1262	0.212	U	0.385	0.212	ug/L		11/08/17 13:53	11/09/17 21:37	1
Aroclor-1268	0.346	U	0.385	0.346	ug/L		11/08/17 13:53	11/09/17 21:37	1
Polychlorinated biphenyls, Total	0.346	U	0.385	0.346	ug/L		11/08/17 13:53	11/09/17 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	54		32 - 120	11/08/17 13:53	11/09/17 21:37	1
DCB Decachlorobiphenyl	15	X	16 - 120	11/08/17 13:53	11/09/17 21:37	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: SOIL-SED DRUM

Lab Sample ID: 240-87591-131

Date Collected: 11/03/17 12:21

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 88.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.3	U	56.9	27.3	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
Aroclor-1221	26.2	U	56.9	26.2	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
Aroclor-1232	18.2	U	56.9	18.2	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
Aroclor-1242	22.7	U	56.9	22.7	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
Aroclor-1248	1220		56.9	19.3	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
Aroclor-1254	15.9	U	56.9	15.9	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
Aroclor-1260	87.6		56.9	20.5	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
Aroclor-1262	9.10	U	56.9	9.10	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
Aroclor-1268	22.7	U	56.9	22.7	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1
Polychlorinated biphenyls, Total	1310		56.9	27.3	ug/Kg	☼	11/11/17 10:25	11/13/17 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		14 - 128	11/11/17 10:25	11/13/17 15:30	1
DCB Decachlorobiphenyl	85		10 - 132	11/11/17 10:25	11/13/17 15:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.7		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	11.3		0.1	0.1	%			11/09/17 07:46	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: EQUIP RINSATE

Lab Sample ID: 240-87591-132

Date Collected: 11/02/17 16:58

Matrix: Water

Date Received: 11/07/17 17:00

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.179	U	0.357	0.179	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1221	0.321	U	0.357	0.321	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1232	0.241	U	0.357	0.241	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1242	0.223	U	0.357	0.223	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1248	0.179	U	0.357	0.179	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1254	0.116	U	0.357	0.116	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1260	0.143	U	0.357	0.143	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1262	0.196	U	0.357	0.196	ug/L		11/08/17 13:53	11/09/17 21:55	1
Aroclor-1268	0.321	U	0.357	0.321	ug/L		11/08/17 13:53	11/09/17 21:55	1
Polychlorinated biphenyls, Total	0.321	U	0.357	0.321	ug/L		11/08/17 13:53	11/09/17 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		32 - 120	11/08/17 13:53	11/09/17 21:55	1
DCB Decachlorobiphenyl	81		16 - 120	11/08/17 13:53	11/09/17 21:55	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00-72-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-133

Date Collected: 10/31/17 14:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 77.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	31.4	U	65.3	31.4	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1221	30.0	U	65.3	30.0	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1232	20.9	U	65.3	20.9	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1242	26.1	U	65.3	26.1	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1248	22.2	U	65.3	22.2	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1254	18.3	U	65.3	18.3	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1260	23.5	U	65.3	23.5	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1262	10.5	U	65.3	10.5	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Aroclor-1268	26.1	U	65.3	26.1	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1
Polychlorinated biphenyls, Total	31.4	U	65.3	31.4	ug/Kg	☼	11/10/17 10:03	11/14/17 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	75		14 - 128	11/10/17 10:03	11/14/17 14:39	1
DCB Decachlorobiphenyl	91		10 - 132	11/10/17 10:03	11/14/17 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.2		0.1	0.1	%			11/09/17 07:46	1
Percent Moisture	22.8		0.1	0.1	%			11/09/17 07:46	1

Surrogate Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Sediment

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (14-128)	TCX2 (14-128)	DCB1 (10-132)	DCB2 (10-132)
240-87591-1	ED-00.08-SD02-(0-0.45')		68		80
240-87591-2	ED-00.08-SD02-(0.45-.75')		87		100
240-87591-3	ED-00.08-SD02-(0.75-1.4')		73		82
240-87591-4	ED-00.08-SD02-(0.75-1.4')-FD		69		81
240-87591-5	ED-00.08-SD02-(1.4-2.03')		107		151 X
240-87591-6	ED-00.25-SD01-(0.0-57')		80		99
240-87591-7	ED-00.25-SD01-(0.57-3.51')		69		79
240-87591-8	ED-00.25-SD01-(3.51-4.3')	166 X	82 p	40 p	107
240-87591-9	ED-00.25-SD01-(3.51-4.3')-DUP	203 X	106 p	53 p	148 X
240-87591-10	ED-00.39-SD02-(0-2.20')		76		92
240-87591-10 MS	ED-00.39-SD02-(0-2.20')		76		87
240-87591-10 MSD	ED-00.39-SD02-(0-2.20')		76		81
240-87591-11	ED-00.39-SD02-(2.20-2.41')		93		128
240-87591-12	ED-00.39-SD02-(2.41-3.54')		78		100
240-87591-13	ED-00.39-SD02-(3.54-4.30')		100		113
240-87591-14	ED-00.47-SD02-(0-0.33')		68		76
240-87591-15	ED-00.47-SD02-(33-1.46')		73		87
240-87591-16	ED-00.47-SD02-(1.46-1.96')		64		71
240-87591-17	ED-00.47-SD02-(1.96-3.13')		75		89
240-87591-18	ED-00.51-SD02-(0-0.36')		67		79
240-87591-19	ED-00.51-SD02-(0.36-0.68')		70		121
240-87591-20	ED-00.51-SD02-(0.68-1.65')	48 p		47 p	
240-87591-21	ED-00.51-SD02-(1.65-1.75')	61		60 p	
240-87591-22	ED-00.60-SD02-(0-1.76')	73		91	
240-87591-22 MS	ED-00.60-SD02-(0-1.76')	89		95	
240-87591-22 MSD	ED-00.60-SD02-(0-1.76')	97		86	
240-87591-23	ED-00.60-SD02-(1.76-2.22')	145 X		51 p	
240-87591-24	ED-00.60-SD02-(2.22-2.39')	98		94	
240-87591-25	ED-00.60-SD02-(2.39-2.63')	85		97	
240-87591-26	ED-00.60-SD02-(2.63-3.30')	93		191 X	
240-87591-27	ED-00.72-SD03-(0-2.06')	73		88	
240-87591-28	ED-00.72-SD03-(2.06-2.40')	89		84	
240-87591-29	ED-00.72-SD03-(2.40-3.50')	218 X		128	
240-87591-30	ED-00.72-SD03-(3.50-3.84')	170 X		114	
240-87591-31	ED-00.72-SD03-(3.84-4.05')	219 X		122	
240-87591-32	ED-00.72-SD03-(4.05-4.30')	171 X		108	
240-87591-33	ED-00.72-SD03-(2.40-3.50)-FD	217 X		108	
240-87591-34	ED-00.82-SD02-(0-0.39')	74		72	
240-87591-34 MS	ED-00.82-SD02-(0-0.39')	83		82	
240-87591-34 MSD	ED-00.82-SD02-(0-0.39')	94		78	
240-87591-35	ED-00.82-SD02-(0.39-0.70')	74		78	
240-87591-36	ED.01.03-SD02-(0-0.98)	74		69	
240-87591-37	ED.01.03-SD02-(0-0.98)-FD	87		108	
240-87591-38	ED-01.03-SD02-(0.98-1.65')	578 X		0 X	
240-87591-39	ED-01.03-SD02-(0.98-1.65')-FD	250 X		110	
240-87591-40	ED-01.03-SD02-(1.65-1.87')	186 X		91 p	
240-87591-41	ED-01.03-SD02-(1.87-2.25')	97		102	
240-87591-42	ED-01.14-SD02-(0-1.05')	73		73	
240-87591-43	ED-01.22-SD02-(0-0.17')	75		72 p	

TestAmerica Canton

Surrogate Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Sediment

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (14-128)	TCX2 (14-128)	DCB1 (10-132)	DCB2 (10-132)
240-87591-44	ED-01.22-SD02-(0.17-0.29')	76		77	
240-87591-45	ED-01.37-SD02-(0-0.9')	81		79	
240-87591-46	ED-01.49-SD03-(0-0.70')	70		91	
240-87591-131	SOIL-SED DRUM	80		85	
LCS 240-303031/24-A	Lab Control Sample		74		80
LCS 240-303095/24-A	Lab Control Sample	94		121	
LCS 240-303098/24-A	Lab Control Sample	98		98	
MB 240-303031/23-A	Method Blank		72		76
MB 240-303095/23-A	Method Blank	82		104	
MB 240-303098/23-A	Method Blank	95		103	

Surrogate Legend

TCX = Tetrachloro-m-xylene
 DCB = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (14-128)	TCX2 (14-128)	DCB1 (10-132)	DCB2 (10-132)
240-87591-47	ED-00.82-SOL04-(0-0.13')		84		99
240-87591-48	ED-00.82-SOL04-(0.13-0.5)		69		87
240-87591-49	ED-00.72-SL01-(0-0.50')		75		95
240-87591-50	ED-00.72-SL01-(0.50-1.0')		74		87
240-87591-51	ED-00.60-SL03-(0-0.89')	85	86	95	85
240-87591-51 MS	ED-00.60-SL03-(0-0.89')		82		79
240-87591-51 MSD	ED-00.60-SL03-(0-0.89')		81		82
240-87591-52	ED-00.60-SL03-(0.89-1.0')		77		89
240-87591-53	ED-0060.SL01-(0-0.19')		79		113
240-87591-54	ED-0060.SL01-(0.19-1.0')		73		88
240-87591-55	ED-00.51-SL03-(0-0.5')		77		0 X
240-87591-56	ED-00.51-SL03-(0.5-1.0')		78		38
240-87591-57	ED-00.51-SL03-(0-0.5')-FD		76		115
240-87591-58	ED-00.51-SL01-(0-0.5')		77		95
240-87591-59	ED-00.51.SL01-(0.5-1.0')		79		93
240-87591-60	ED-00.47-SL04-(0-0.80')		68		84
240-87591-61	ED-00.47-SL03-(0-0.77')		73		84
240-87591-62	ED-00.47-SL03-(0-0.77')-FD		69		81
240-87591-63	ED-00.47-SL01-(0-0.5')		69		88
240-87591-64	ED-00.39-SL04-(0-0.50')		75		12 p
240-87591-65	ED-00.39-SL04-(0.50-1.0')		75		87
240-87591-66	ED-00.39-SL03-(0-0.69')		82		94 p
240-87591-67	ED-00.39-SL03-(0-0.69')-FD	100	112	119	105
240-87591-68	ED-00.39-SL03-(0.69-0.98')	80		86	
240-87591-69	ED-00.39-SL03-(0.98-1.17')		68		96
240-87591-70	ED-00.39-SL03-(1.17-1.5')	82		84	
240-87591-71	ED-00.39-SL01-(0-0.5')	77		81	
240-87591-71 MS	ED-00.39-SL01-(0-0.5')	91		91	

TestAmerica Canton

Surrogate Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

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 (14-128)	TCX2 (14-128)	DCB1 (10-132)	DCB2 (10-132)
240-87591-71 MSD	ED-00.39-SL01-(0-0.5')	84		92	
240-87591-72	ED-00.39-SL01-(0.5-1.0')		81		90
240-87591-73	ED-00.25-SL04-(0-0.5')	83		107	
240-87591-74	ED-00.25-SL04-(0.5-1.0')	88		129	
240-87591-75	ED-00.25-SL04-(1.0-1.5")	88		103	
240-87591-76	ED-00.25-SL04-(1.5-2.0')	89		124	
240-87591-77	ED-00.25-SL03-(0.0.5')	98		147 X	
240-87591-78	ED-00.25-SL03-(0.5-1.0')	90		204 X	
240-87591-79	ED-00.25-SL02-(0-0.5')	87		269 X	
240-87591-80	ED-00.25-SL02-(0-0.5')-FD	95		160 X	
240-87591-81	ED-00.25-SL02-(0.5-1.0')	86		106	
240-87591-82	ED-00.25-SL02-(1.0-1.5')	79		105	
240-87591-83	ED-00.08-SL03-(0-0.5')	85		169 X	
240-87591-84	ED-00.08-SL03-(0.5-0.97')	83		131	
240-87591-85	ED-00.08-SL03-(0.97-1..47')	94		178 X	
240-87591-85 MS	ED-00.08-SL03-(0.97-1..47')	112		109 p	
240-87591-85 MSD	ED-00.08-SL03-(0.97-1..47')	107		108	
240-87591-86	ED-00.08-SL03-(1.5-2.0')	98		110	
240-87591-87	ED-00.08-SL04-(0-0.67)	91		112	
240-87591-88	ED-00.08-SL04-(0.67-0.86)	83		161 X	
240-87591-89	ED-00.08-SL04-(0.86-1.36)		74		93
240-87591-90	ED-00.08-SL04-(1.5-2.0')		72		86
240-87591-91	ED-00.08-SL01-(0-0.5')	68	66	95	91
240-87591-91 MS	ED-00.08-SL01-(0-0.5')		66		84
240-87591-91 MSD	ED-00.08-SL01-(0-0.5')		68		93
240-87591-92	ED-00.08-SL01-(0.5-1.0')		62		83
240-87591-93	ED-00.08-SL01-(1.0-1.86')		78		97
240-87591-94	ED-00.08-SL01-(1.86-2.0')		70		82
240-87591-95	ED-01.37-SL03-(0-0.27')		72		91
240-87591-96	ED-01.37-SL03-(0.27-0.92')		74		91
240-87591-97	ED-01.37-SL03-(0.92-1.07')		64		82
240-87591-98	ED-01.37-SL03-(1.07-2.0')		73		94
240-87591-99	ED-01.49-SL04-(0-0.5')		67		79
240-87591-100	ED-01.49-SL04-(0.5-1.0')		72		85 p
240-87591-101	ED-01.49-SL04-(1.0-1.81')		67		85 p
240-87591-102	ED-01.49-SL04-(1.81-2.0')		69		88
240-87591-103	ED-00.72-SL02-(0-0.5)		67		128 p
240-87591-104	ED-00.72-SL02-(0.5-1.0')		71		94
240-87591-105	ED-00.72-SL02-(1.0-1.5')		72		102
240-87591-106	ED-01.24-SL01-(0-0.87')		71		108 p
240-87591-107	ED-01.24-SL01-(0.87-1.0')		75		77
240-87591-108	ED-01.14-SL03-(0-0.5')		71		81
240-87591-109	ED-01.14-SL03-(0.5-1.0')		80		99
240-87591-110	ED-01.14-SL03-(0.5-1.0')-FD		82		101
240-87591-111	ED-01.49-SL02-(0-0.5')		73		85
240-87591-112	ED-01.49-SL02-(0.5-1.0')		72		87
240-87591-113	ED-01.37-SL01-(0-0.9')		86		91
240-87591-114	ED-01.37-SL01-(0-0.9')-FD		76		86
240-87591-115	ED-01.03-SL03-(0-0.21')		76		82

TestAmerica Canton

Surrogate Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

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 (14-128)	TCX2 (14-128)	DCB1 (10-132)	DCB2 (10-132)
240-87591-116	ED-01.03-SL03-(0.21-1.0')		74		84
240-87591-117	ED-00.82-SL03-(0-0.5')		80		84
240-87591-118	ED-00.82-SL03-(0.5-1.0')		76		384 X
240-87591-119	ED-00.72-SL04-(0-0.11')		83		99
240-87591-120	ED-00.72-SL04-(0.11-0.47')		71		91
240-87591-121	ED-00.72-SL04-(0.47-1.0')		74		87
240-87591-122	ED-01.49-SL01-(0-0.5')		79		90
240-87591-123	ED-01.49-SL01-(0-0.5')-FD		78		88
240-87591-123 MS	ED-01.49-SL01-(0-0.5')-FD		88		95
240-87591-123 MSD	ED-01.49-SL01-(0-0.5')-FD		78		86
240-87591-124	ED-01.24-SL03-(0-0.5')	81		108	
240-87591-125	ED-00.82-SL01-(0-0.22')	88		87	
240-87591-126	ED-00.82-SL01-(0.22-0.5')	93		113	
240-87591-127	ED-01.03-SL01-(0-0.5')	98		109	
240-87591-128	ED-01.03-SL01-(0-0.5')-FD		71		95
240-87591-129	ED-01.14-SL01-(0-0.5')	75		99	
240-87591-129 MS	ED-01.14-SL01-(0-0.5')	80		100	
240-87591-129 MSD	ED-01.14-SL01-(0-0.5')	80		98	
240-87591-133	ED-00.72-SL01-(0-0.5')-FD		75		91
LCS 240-302635/20-A	Lab Control Sample	91		118	
LCS 240-302802/24-A	Lab Control Sample		86		87
LCS 240-302857/8-A	Lab Control Sample	75		90	
LCS 240-302955/24-A	Lab Control Sample		80		92
LCS 240-302976/24-A	Lab Control Sample	82		94	
LCS 240-302991/24-A	Lab Control Sample		66		83
MB 240-302635/19-A	Method Blank	83		134 X	
MB 240-302802/23-A	Method Blank		84		83
MB 240-302857/7-A	Method Blank	76		81	
MB 240-302955/23-A	Method Blank		67		79
MB 240-302976/23-A	Method Blank	86		96	
MB 240-302991/23-A	Method Blank		71		87

Surrogate Legend

TCX = Tetrachloro-m-xylene
 DCB = DCB Decachlorobiphenyl

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 (32-120)	DCB2 (16-120)
240-87591-130	WATER DRUM	54	15 X
240-87591-132	EQUIP RINSATE	73	81
LCS 240-302648/4-A	Lab Control Sample	77	76
MB 240-302648/3-A	Method Blank	77	76

Surrogate Legend

TCX = Tetrachloro-m-xylene
 DCB = DCB Decachlorobiphenyl

TestAmerica Canton

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-302635/19-A
Matrix: Solid
Analysis Batch: 302905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 302635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/08/17 13:17	11/10/17 13:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		14 - 128	11/08/17 13:17	11/10/17 13:56	1
DCB Decachlorobiphenyl	134	X	10 - 132	11/08/17 13:17	11/10/17 13:56	1

Lab Sample ID: LCS 240-302635/20-A
Matrix: Solid
Analysis Batch: 302905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 302635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	715.3		ug/Kg		72	47 - 120
Aroclor-1260	1000	883.1		ug/Kg		88	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	91		14 - 128
DCB Decachlorobiphenyl	118		10 - 132

Lab Sample ID: 240-87591-85 MS
Matrix: Solid
Analysis Batch: 302905

Client Sample ID: ED-00.08-SL03-(0.97-1..47')
Prep Type: Total/NA
Prep Batch: 302635

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	2900	U	1200	18500		ug/Kg	☼	NC	31 - 120
Aroclor-1260	3090	J F1 F2	1200	3394	J p	ug/Kg	☼	25	21 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	112		14 - 128
DCB Decachlorobiphenyl	109	p	10 - 132

Lab Sample ID: 240-87591-85 MSD
Matrix: Solid
Analysis Batch: 302905

Client Sample ID: ED-00.08-SL03-(0.97-1..47')
Prep Type: Total/NA
Prep Batch: 302635

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	2900	U	1190	14700		ug/Kg	☼	NC	31 - 120	23	30
Aroclor-1260	2720	J F1	1190	4805	J F1	ug/Kg	☼	175	21 - 122	12	30

TestAmerica Canton

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 240-87591-85 MSD
Matrix: Solid
Analysis Batch: 302905

Client Sample ID: ED-00.08-SL03-(0.97-1..47')
Prep Type: Total/NA
Prep Batch: 302635

Surrogate	MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	107		14 - 128
DCB Decachlorobiphenyl	108		10 - 132

Lab Sample ID: MB 240-302648/3-A
Matrix: Water
Analysis Batch: 302884

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 302648

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1016	0.200	U	0.400	0.200	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1221	0.360	U	0.400	0.360	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1232	0.270	U	0.400	0.270	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1242	0.250	U	0.400	0.250	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1248	0.200	U	0.400	0.200	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1254	0.130	U	0.400	0.130	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1260	0.160	U	0.400	0.160	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1262	0.220	U	0.400	0.220	ug/L		11/08/17 13:53	11/09/17 22:13	1
Aroclor-1268	0.360	U	0.400	0.360	ug/L		11/08/17 13:53	11/09/17 22:13	1
Polychlorinated biphenyls, Total	0.360	U	0.400	0.360	ug/L		11/08/17 13:53	11/09/17 22:13	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	77		32 - 120	11/08/17 13:53	11/09/17 22:13	1
DCB Decachlorobiphenyl	76		16 - 120	11/08/17 13:53	11/09/17 22:13	1

Lab Sample ID: LCS 240-302648/4-A
Matrix: Water
Analysis Batch: 302884

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 302648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	10.0	6.227		ug/L		62	38 - 120
Aroclor-1260	10.0	6.091		ug/L		61	42 - 120

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	77		32 - 120
DCB Decachlorobiphenyl	76		16 - 120

Lab Sample ID: MB 240-302802/23-A
Matrix: Solid
Analysis Batch: 303080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 302802

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1

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QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-302802/23-A
Matrix: Solid
Analysis Batch: 303080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 302802

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/09/17 10:58	11/11/17 15:05	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	84		14 - 128	11/09/17 10:58	11/11/17 15:05	1
DCB Decachlorobiphenyl	83		10 - 132	11/09/17 10:58	11/11/17 15:05	1

Lab Sample ID: LCS 240-302802/24-A
Matrix: Solid
Analysis Batch: 303080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 302802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	704.4		ug/Kg		70	47 - 120
Aroclor-1260	1000	752.3		ug/Kg		75	46 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	86		14 - 128
DCB Decachlorobiphenyl	87		10 - 132

Lab Sample ID: 240-87591-51 MS
Matrix: Solid
Analysis Batch: 303080

Client Sample ID: ED-00.60-SL03-(0-0.89)
Prep Type: Total/NA
Prep Batch: 302802

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	29.4	U	1240	825.1		ug/Kg	☼	67	31 - 120
Aroclor-1260	22.1	U	1240	849.1		ug/Kg	☼	69	21 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	82		14 - 128
DCB Decachlorobiphenyl	79		10 - 132

Lab Sample ID: 240-87591-51 MSD
Matrix: Solid
Analysis Batch: 303080

Client Sample ID: ED-00.60-SL03-(0-0.89)
Prep Type: Total/NA
Prep Batch: 302802

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	29.4	U	1230	779.2		ug/Kg	☼	63	31 - 120	6	30
Aroclor-1260	22.1	U	1230	847.3		ug/Kg	☼	69	21 - 122	0	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	81		14 - 128
DCB Decachlorobiphenyl	82		10 - 132

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QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-302857/7-A
Matrix: Solid
Analysis Batch: 303043

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 302857

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/09/17 14:18	11/10/17 18:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	11/09/17 14:18	11/10/17 18:12	1
DCB Decachlorobiphenyl	81		10 - 132	11/09/17 14:18	11/10/17 18:12	1

Lab Sample ID: LCS 240-302857/8-A
Matrix: Solid
Analysis Batch: 303043

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 302857

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	613.7		ug/Kg		61	47 - 120
Aroclor-1260	1000	728.7		ug/Kg		73	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	75		14 - 128
DCB Decachlorobiphenyl	90		10 - 132

Lab Sample ID: 240-87591-71 MS
Matrix: Solid
Analysis Batch: 303043

Client Sample ID: ED-00.39-SL01-(0-0.5')
Prep Type: Total/NA
Prep Batch: 302857

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	28.0	U	1150	753.7		ug/Kg	☼	65	31 - 120
Aroclor-1260	21.0	U	1150	851.4		ug/Kg	☼	74	21 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	91		14 - 128
DCB Decachlorobiphenyl	91		10 - 132

Lab Sample ID: 240-87591-71 MSD
Matrix: Solid
Analysis Batch: 303043

Client Sample ID: ED-00.39-SL01-(0-0.5')
Prep Type: Total/NA
Prep Batch: 302857

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	28.0	U	1150	735.1		ug/Kg	☼	64	31 - 120	3	30
Aroclor-1260	21.0	U	1150	850.9		ug/Kg	☼	74	21 - 122	0	30

TestAmerica Canton

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 240-87591-71 MSD
Matrix: Solid
Analysis Batch: 303043

Client Sample ID: ED-00.39-SL01-(0-0.5')
Prep Type: Total/NA
Prep Batch: 302857

Surrogate	MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	84		14 - 128
DCB Decachlorobiphenyl	92		10 - 132

Lab Sample ID: MB 240-302955/23-A
Matrix: Solid
Analysis Batch: 303313

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 302955

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/10/17 08:32	11/14/17 17:08	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	67		14 - 128	11/10/17 08:32	11/14/17 17:08	1
DCB Decachlorobiphenyl	79		10 - 132	11/10/17 08:32	11/14/17 17:08	1

Lab Sample ID: LCS 240-302955/24-A
Matrix: Solid
Analysis Batch: 303313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 302955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	651.8		ug/Kg		65	47 - 120
Aroclor-1260	1000	698.5		ug/Kg		70	46 - 120

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	80		14 - 128
DCB Decachlorobiphenyl	92		10 - 132

Lab Sample ID: 240-87591-123 MS
Matrix: Solid
Analysis Batch: 303313

Client Sample ID: ED-01.49-SL01-(0-0.5')-FD
Prep Type: Total/NA
Prep Batch: 302955

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	27.9	U	1180	810.4		ug/Kg	☼	69	31 - 120
Aroclor-1260	20.9	U	1180	857.5		ug/Kg	☼	73	21 - 122

Surrogate	MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	88		14 - 128
DCB Decachlorobiphenyl	95		10 - 132

TestAmerica Canton

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 240-87591-123 MSD

Matrix: Solid
Analysis Batch: 303313

Client Sample ID: ED-01.49-SL01-(0-0.5')-FD

Prep Type: Total/NA
Prep Batch: 302955

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Aroclor-1016	27.9	U	1180	763.5		ug/Kg	☼	65	31 - 120	6	30
Aroclor-1260	20.9	U	1180	784.3		ug/Kg	☼	67	21 - 122	9	30
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	78		14 - 128								
DCB Decachlorobiphenyl	86		10 - 132								

Lab Sample ID: MB 240-302976/23-A

Matrix: Solid
Analysis Batch: 303214

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 302976

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/10/17 09:13	11/13/17 18:47		1
MB MB										
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
Tetrachloro-m-xylene	86		14 - 128	11/10/17 09:13	11/13/17 18:47		1			
DCB Decachlorobiphenyl	96		10 - 132	11/10/17 09:13	11/13/17 18:47		1			

Lab Sample ID: LCS 240-302976/24-A

Matrix: Solid
Analysis Batch: 303214

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 302976

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
Aroclor-1016	1000	634.3		ug/Kg		63	47 - 120
Aroclor-1260	1000	763.9		ug/Kg		76	46 - 120
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
Tetrachloro-m-xylene	82		14 - 128				
DCB Decachlorobiphenyl	94		10 - 132				

Lab Sample ID: 240-87591-129 MS

Matrix: Solid
Analysis Batch: 303311

Client Sample ID: ED-01.14-SL01-(0-0.5')

Prep Type: Total/NA
Prep Batch: 302976

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Aroclor-1016	137	U	1130	1160		ug/Kg	☼	103	31 - 120
Aroclor-1260	337		1130	1202		ug/Kg	☼	76	21 - 122

TestAmerica Canton

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 240-87591-129 MS
Matrix: Solid
Analysis Batch: 303311

Client Sample ID: ED-01.14-SL01-(0-0.5')
Prep Type: Total/NA
Prep Batch: 302976

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	80		14 - 128
DCB Decachlorobiphenyl	100		10 - 132

Lab Sample ID: 240-87591-129 MSD
Matrix: Solid
Analysis Batch: 303311

Client Sample ID: ED-01.14-SL01-(0-0.5')
Prep Type: Total/NA
Prep Batch: 302976

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
Aroclor-1016	137	U	1130	1242		ug/Kg	☼	110	31 - 120	7	30
Aroclor-1260	309		1130	1190		ug/Kg	☼	78	21 - 122	4	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	80		14 - 128
DCB Decachlorobiphenyl	98		10 - 132

Lab Sample ID: MB 240-302991/23-A
Matrix: Solid
Analysis Batch: 303305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 302991

Analyte	MB MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier					Time	Time	Time	Time	
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/10/17 10:03	11/14/17 13:39		1	
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/10/17 10:03	11/14/17 13:39		1	
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/10/17 10:03	11/14/17 13:39		1	
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/10/17 10:03	11/14/17 13:39		1	
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/10/17 10:03	11/14/17 13:39		1	
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/10/17 10:03	11/14/17 13:39		1	
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/10/17 10:03	11/14/17 13:39		1	
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/10/17 10:03	11/14/17 13:39		1	
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/10/17 10:03	11/14/17 13:39		1	
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/10/17 10:03	11/14/17 13:39		1	

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	71		14 - 128	11/10/17 10:03	11/14/17 13:39	1
DCB Decachlorobiphenyl	87		10 - 132	11/10/17 10:03	11/14/17 13:39	1

Lab Sample ID: LCS 240-302991/24-A
Matrix: Solid
Analysis Batch: 303305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 302991

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Aroclor-1016	1000	575.0		ug/Kg		57	47 - 120
Aroclor-1260	1000	674.1		ug/Kg		67	46 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	66		14 - 128
DCB Decachlorobiphenyl	83		10 - 132

TestAmerica Canton

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 240-87591-91 MS

Matrix: Solid
Analysis Batch: 303305

Client Sample ID: ED-00.08-SL01-(0-0.5')

Prep Type: Total/NA
Prep Batch: 302991

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Aroclor-1016	30.0	U	1260	684.4		ug/Kg	☼	54	31 - 120
Aroclor-1260	28.5	J p	1260	893.0		ug/Kg	☼	69	21 - 122
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
Tetrachloro-m-xylene	66		14 - 128						
DCB Decachlorobiphenyl	84		10 - 132						

Lab Sample ID: 240-87591-91 MSD

Matrix: Solid
Analysis Batch: 303305

Client Sample ID: ED-00.08-SL01-(0-0.5')

Prep Type: Total/NA
Prep Batch: 302991

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Aroclor-1016	30.0	U	1260	717.7		ug/Kg	☼	57	31 - 120	5	30
Aroclor-1260	28.5	J p	1260	965.0		ug/Kg	☼	74	21 - 122	8	30
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	68		14 - 128								
DCB Decachlorobiphenyl	93		10 - 132								

Lab Sample ID: MB 240-303031/23-A

Matrix: Sediment
Analysis Batch: 303227

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 303031

Analyte	MB	MB	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/10/17 12:42	11/14/17 01:36			1
MB MB											
Surrogate	%Recovery	Qualifier	Limits	Prepared		Analyzed		Dil Fac			
Tetrachloro-m-xylene	72		14 - 128	11/10/17 12:42	11/14/17 01:36				1		
DCB Decachlorobiphenyl	76		10 - 132	11/10/17 12:42	11/14/17 01:36				1		

Lab Sample ID: LCS 240-303031/24-A

Matrix: Sediment
Analysis Batch: 303227

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 303031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1260	1000	625.9		ug/Kg		63	46 - 120

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QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-303031/24-A
Matrix: Sediment
Analysis Batch: 303227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 303031

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	74		14 - 128
DCB Decachlorobiphenyl	80		10 - 132

Lab Sample ID: 240-87591-10 MS
Matrix: Sediment
Analysis Batch: 303227

Client Sample ID: ED-00.39-SD02-(0-2.20')
Prep Type: Total/NA
Prep Batch: 303031

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Aroclor-1016	30.6	U	1260	1127		ug/Kg	☼	90	31 - 120
Aroclor-1260	35.1	J	1260	817.9		ug/Kg	☼	62	21 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	76		14 - 128
DCB Decachlorobiphenyl	87		10 - 132

Lab Sample ID: 240-87591-10 MSD
Matrix: Sediment
Analysis Batch: 303227

Client Sample ID: ED-00.39-SD02-(0-2.20')
Prep Type: Total/NA
Prep Batch: 303031

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Aroclor-1016	30.6	U	1290	1199		ug/Kg	☼	93	31 - 120	6	30
Aroclor-1260	23.0	U	1290	845.5		ug/Kg	☼	66	21 - 122	2	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	76		14 - 128
DCB Decachlorobiphenyl	81		10 - 132

Lab Sample ID: MB 240-303095/23-A
Matrix: Sediment
Analysis Batch: 303127

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 303095

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/11/17 09:19	11/13/17 15:32	1	

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil	Fac
	%Recovery	Qualifier					
Tetrachloro-m-xylene	82		14 - 128	11/11/17 09:19	11/13/17 15:32	1	
DCB Decachlorobiphenyl	104		10 - 132	11/11/17 09:19	11/13/17 15:32	1	

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QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-303095/24-A
Matrix: Sediment
Analysis Batch: 303127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 303095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	733.4		ug/Kg		73	47 - 120
Aroclor-1260	1000	811.1		ug/Kg		81	46 - 120
Surrogate		LCS %Recovery	LCS Qualifier	Limits			
Tetrachloro-m-xylene		94		14 - 128			
DCB Decachlorobiphenyl		121		10 - 132			

Lab Sample ID: 240-87591-22 MS
Matrix: Sediment
Analysis Batch: 303440

Client Sample ID: ED-00.60-SD02-(0-1.76')
Prep Type: Total/NA
Prep Batch: 303095

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	27.9	U	1200	1839	F1	ug/Kg	☼	153	31 - 120
Aroclor-1260	31.6	J	1200	848.2		ug/Kg	☼	68	21 - 122
Surrogate		MS %Recovery	MS Qualifier	Limits					
Tetrachloro-m-xylene		89		14 - 128					
DCB Decachlorobiphenyl		95		10 - 132					

Lab Sample ID: 240-87591-22 MSD
Matrix: Sediment
Analysis Batch: 303440

Client Sample ID: ED-00.60-SD02-(0-1.76')
Prep Type: Total/NA
Prep Batch: 303095

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Aroclor-1016	27.9	U	1190	1624	F1	ug/Kg	☼	136	31 - 120	12	30
Aroclor-1260	31.6	J	1190	832.2		ug/Kg	☼	67	21 - 122	2	30
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
Tetrachloro-m-xylene		97		14 - 128							
DCB Decachlorobiphenyl		86		10 - 132							

Lab Sample ID: MB 240-303098/23-A
Matrix: Sediment
Analysis Batch: 303135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 303098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.0	U	50.0	24.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1221	23.0	U	50.0	23.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1232	16.0	U	50.0	16.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1242	20.0	U	50.0	20.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1248	17.0	U	50.0	17.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1254	14.0	U	50.0	14.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1260	18.0	U	50.0	18.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1262	8.00	U	50.0	8.00	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Aroclor-1268	20.0	U	50.0	20.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1
Polychlorinated biphenyls, Total	24.0	U	50.0	24.0	ug/Kg		11/11/17 10:25	11/13/17 08:47	1

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QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-303098/23-A
Matrix: Sediment
Analysis Batch: 303135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 303098

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	95		14 - 128	11/11/17 10:25	11/13/17 08:47	1
DCB Decachlorobiphenyl	103		10 - 132	11/11/17 10:25	11/13/17 08:47	1

Lab Sample ID: LCS 240-303098/24-A
Matrix: Sediment
Analysis Batch: 303135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 303098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1260	1000	814.1		ug/Kg		81	46 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	98		14 - 128
DCB Decachlorobiphenyl	98		10 - 132

Lab Sample ID: 240-87591-34 MS
Matrix: Sediment
Analysis Batch: 303135

Client Sample ID: ED-00.82-SD02-(0-0.39')
Prep Type: Total/NA
Prep Batch: 303098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1260	22.3	U	1240	1033		ug/Kg	☼	84	21 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	83		14 - 128
DCB Decachlorobiphenyl	82		10 - 132

Lab Sample ID: 240-87591-34 MSD
Matrix: Sediment
Analysis Batch: 303135

Client Sample ID: ED-00.82-SD02-(0-0.39')
Prep Type: Total/NA
Prep Batch: 303098

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	
										RPD	Limit
Aroclor-1016	29.8	U F1	1240	1768	F1	ug/Kg	☼	143	31 - 120	18	30
Aroclor-1260	22.3	U	1240	890.9		ug/Kg	☼	72	21 - 122	15	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	94		14 - 128
DCB Decachlorobiphenyl	78		10 - 132

Method: Moisture - Percent Moisture

Lab Sample ID: 240-87591-5 DU
Matrix: Sediment
Analysis Batch: 302543

Client Sample ID: ED-00.08-SD02-(1.4-2.03')
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	
							RPD	Limit
Percent Solids	75.4		78.0		%		3	20

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QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 240-87591-5 DU
Matrix: Sediment
Analysis Batch: 302543

Client Sample ID: ED-00.08-SD02-(1.4-2.03')
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	24.6		22.0		%		11	20

Lab Sample ID: 240-87591-10 DU
Matrix: Sediment
Analysis Batch: 302543

Client Sample ID: ED-00.39-SD02-(0-2.20')
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	78.2		78.9		%		0.9	20
Percent Moisture	21.8		21.1		%		3	20

Lab Sample ID: 240-87591-22 DU
Matrix: Sediment
Analysis Batch: 302543

Client Sample ID: ED-00.60-SD02-(0-1.76')
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	83.7		83.7		%		0.07	20
Percent Moisture	16.3		16.3		%		0.4	20

Lab Sample ID: 240-87591-34 DU
Matrix: Sediment
Analysis Batch: 302543

Client Sample ID: ED-00.82-SD02-(0-0.39')
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	81.7		81.5		%		0.3	20
Percent Moisture	18.3		18.5		%		1	20

Lab Sample ID: 240-87591-39 DU
Matrix: Sediment
Analysis Batch: 302543

Client Sample ID: ED-01.03-SD02-(0.98-1.65')-FD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	80.9		81.9		%		1	20
Percent Moisture	19.1		18.1		%		6	20

Lab Sample ID: 240-87591-48 DU
Matrix: Solid
Analysis Batch: 302543

Client Sample ID: ED-00.82-SOL04-(0.13-0.5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	91.2		90.8		%		0.4	20
Percent Moisture	8.8		9.2		%		4	20

Lab Sample ID: 240-87591-51 DU
Matrix: Solid
Analysis Batch: 302543

Client Sample ID: ED-00.60-SL03-(0-0.89')
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	80.3		81.3		%		1	20
Percent Moisture	19.7		18.7		%		5	20

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QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 240-87591-65 DU

Matrix: Solid
Analysis Batch: 302543

Client Sample ID: ED-00.39-SL04-(0.50-1.0')

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	RPD
			Result	Qualifier				Limit
Percent Solids	80.2		79.4		%		0.9	20
Percent Moisture	19.8		20.6		%		4	20

Lab Sample ID: 240-87591-71 DU

Matrix: Solid
Analysis Batch: 302739

Client Sample ID: ED-00.39-SL01-(0-0.5')

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	RPD
			Result	Qualifier				Limit
Percent Solids	83.9		77.3		%		8	20
Percent Moisture	16.1		22.7	F3	%		34	20

Lab Sample ID: 240-87591-80 DU

Matrix: Solid
Analysis Batch: 302739

Client Sample ID: ED-00.25-SL02-(0-0.5')-FD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	RPD
			Result	Qualifier				Limit
Percent Solids	81.0		81.5		%		0.6	20
Percent Moisture	19.0		18.5		%		3	20

Lab Sample ID: 240-87591-89 DU

Matrix: Solid
Analysis Batch: 302739

Client Sample ID: ED-00.08-SL04-(0.86-1.36)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	RPD
			Result	Qualifier				Limit
Percent Solids	80.5		81.2		%		0.9	20
Percent Moisture	19.5		18.8		%		4	20

Lab Sample ID: 240-87591-91 DU

Matrix: Solid
Analysis Batch: 302739

Client Sample ID: ED-00.08-SL01-(0-0.5')

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	RPD
			Result	Qualifier				Limit
Percent Solids	78.8		75.9		%		4	20
Percent Moisture	21.2		24.1		%		13	20

Lab Sample ID: 240-87591-108 DU

Matrix: Solid
Analysis Batch: 302739

Client Sample ID: ED-01.14-SL03-(0-0.5')

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	RPD
			Result	Qualifier				Limit
Percent Solids	79.8		78.2		%		2	20
Percent Moisture	20.2		21.8		%		8	20

Lab Sample ID: 240-87591-116 DU

Matrix: Solid
Analysis Batch: 302739

Client Sample ID: ED-01.03-SL03-(0.21-1.0')

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	RPD
			Result	Qualifier				Limit
Percent Solids	90.6		90.7		%		0.2	20

TestAmerica Canton

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 240-87591-116 DU
 Matrix: Solid
 Analysis Batch: 302739

Client Sample ID: ED-01.03-SL03-(0.21-1.0')
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.4		9.3		%		1	20

Lab Sample ID: 240-87591-129 DU
 Matrix: Solid
 Analysis Batch: 302739

Client Sample ID: ED-01.14-SL01-(0-0.5')
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	87.6		85.9		%		2	20
Percent Moisture	12.4		14.1		%		13	20

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QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

GC Semi VOA

Prep Batch: 302635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-73	ED-00.25-SL04-(0-0.5')	Total/NA	Solid	3540C	
240-87591-74	ED-00.25-SL04-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-75	ED-00.25-SL04-(1.0-1.5')	Total/NA	Solid	3540C	
240-87591-76	ED-00.25-SL04-(1.5-2.0')	Total/NA	Solid	3540C	
240-87591-77	ED-00.25-SL03-(0.0.5')	Total/NA	Solid	3540C	
240-87591-78	ED-00.25-SL03-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-79	ED-00.25-SL02-(0-0.5')	Total/NA	Solid	3540C	
240-87591-80	ED-00.25-SL02-(0-0.5')-FD	Total/NA	Solid	3540C	
240-87591-81	ED-00.25-SL02-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-82	ED-00.25-SL02-(1.0-1.5')	Total/NA	Solid	3540C	
240-87591-83	ED-00.08-SL03-(0-0.5')	Total/NA	Solid	3540C	
240-87591-84	ED-00.08-SL03-(0.5-0.97')	Total/NA	Solid	3540C	
240-87591-85	ED-00.08-SL03-(0.97-1..47')	Total/NA	Solid	3540C	
240-87591-86	ED-00.08-SL03-(1.5-2.0')	Total/NA	Solid	3540C	
240-87591-87	ED-00.08-SL04-(0-0.67)	Total/NA	Solid	3540C	
240-87591-88	ED-00.08-SL04-(0.67-0.86)	Total/NA	Solid	3540C	
MB 240-302635/19-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-302635/20-A	Lab Control Sample	Total/NA	Solid	3540C	
240-87591-85 MS	ED-00.08-SL03-(0.97-1..47')	Total/NA	Solid	3540C	
240-87591-85 MSD	ED-00.08-SL03-(0.97-1..47')	Total/NA	Solid	3540C	

Prep Batch: 302648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-130	WATER DRUM	Total/NA	Water	3510C	
240-87591-132	EQUIP RINSATE	Total/NA	Water	3510C	
MB 240-302648/3-A	Method Blank	Total/NA	Water	3510C	
LCS 240-302648/4-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 302802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-47	ED-00.82-SOL04-(0-0.13')	Total/NA	Solid	3540C	
240-87591-48	ED-00.82-SOL04-(0.13-0.5)	Total/NA	Solid	3540C	
240-87591-49	ED-00.72-SL01-(0-0.50')	Total/NA	Solid	3540C	
240-87591-50	ED-00.72-SL01-(0.50-1.0')	Total/NA	Solid	3540C	
240-87591-51	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	3540C	
240-87591-52	ED-00.60-SL03-(0.89-1.0')	Total/NA	Solid	3540C	
240-87591-53	ED-0060.SL01-(0-0.19')	Total/NA	Solid	3540C	
240-87591-55	ED-00.51-SL03-(0-0.5')	Total/NA	Solid	3540C	
240-87591-56	ED-00.51-SL03-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-57	ED-00.51-SL03-(0-0.5')-FD	Total/NA	Solid	3540C	
240-87591-58	ED-00.51-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-59	ED-00.51.SL01-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-60	ED-00.47-SL04-(0-0.80')	Total/NA	Solid	3540C	
240-87591-61	ED-00.47-SL03-(0-0.77')	Total/NA	Solid	3540C	
240-87591-62	ED-00.47-SL03-(0-0.77')-FD	Total/NA	Solid	3540C	
240-87591-63	ED-00.47-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-64	ED-00.39-SL04-(0-0.50')	Total/NA	Solid	3540C	
240-87591-65	ED-00.39-SL04-(0.50-1.0')	Total/NA	Solid	3540C	
240-87591-66	ED-00.39-SL03-(0-0.69')	Total/NA	Solid	3540C	
MB 240-302802/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-302802/24-A	Lab Control Sample	Total/NA	Solid	3540C	

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

GC Semi VOA (Continued)

Prep Batch: 302802 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-51 MS	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	3540C	
240-87591-51 MSD	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	3540C	

Prep Batch: 302857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-67	ED-00.39-SL03-(0-0.69')-FD	Total/NA	Solid	3540C	
240-87591-68	ED-00.39-SL03-(0.69-0.98')	Total/NA	Solid	3540C	
240-87591-70	ED-00.39-SL03-(1.17-1.5')	Total/NA	Solid	3540C	
240-87591-71	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	3540C	
MB 240-302857/7-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-302857/8-A	Lab Control Sample	Total/NA	Solid	3540C	
240-87591-71 MS	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-71 MSD	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	3540C	

Analysis Batch: 302884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-130	WATER DRUM	Total/NA	Water	8082A	302648
240-87591-132	EQUIP RINSATE	Total/NA	Water	8082A	302648
MB 240-302648/3-A	Method Blank	Total/NA	Water	8082A	302648
LCS 240-302648/4-A	Lab Control Sample	Total/NA	Water	8082A	302648

Analysis Batch: 302905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-73	ED-00.25-SL04-(0-0.5')	Total/NA	Solid	8082A	302635
240-87591-74	ED-00.25-SL04-(0.5-1.0')	Total/NA	Solid	8082A	302635
240-87591-75	ED-00.25-SL04-(1.0-1.5")	Total/NA	Solid	8082A	302635
240-87591-76	ED-00.25-SL04-(1.5-2.0')	Total/NA	Solid	8082A	302635
240-87591-77	ED-00.25-SL03-(0.0.5')	Total/NA	Solid	8082A	302635
240-87591-78	ED-00.25-SL03-(0.5-1.0')	Total/NA	Solid	8082A	302635
240-87591-79	ED-00.25-SL02-(0-0.5')	Total/NA	Solid	8082A	302635
240-87591-80	ED-00.25-SL02-(0-0.5')-FD	Total/NA	Solid	8082A	302635
240-87591-81	ED-00.25-SL02-(0.5-1.0')	Total/NA	Solid	8082A	302635
240-87591-82	ED-00.25-SL02-(1.0-1.5')	Total/NA	Solid	8082A	302635
240-87591-83	ED-00.08-SL03-(0-0.5')	Total/NA	Solid	8082A	302635
240-87591-84	ED-00.08-SL03-(0.5-0.97')	Total/NA	Solid	8082A	302635
240-87591-85	ED-00.08-SL03-(0.97-1..47')	Total/NA	Solid	8082A	302635
240-87591-86	ED-00.08-SL03-(1.5-2.0')	Total/NA	Solid	8082A	302635
240-87591-87	ED-00.08-SL04-(0-0.67)	Total/NA	Solid	8082A	302635
240-87591-88	ED-00.08-SL04-(0.67-0.86)	Total/NA	Solid	8082A	302635
MB 240-302635/19-A	Method Blank	Total/NA	Solid	8082A	302635
LCS 240-302635/20-A	Lab Control Sample	Total/NA	Solid	8082A	302635
240-87591-85 MS	ED-00.08-SL03-(0.97-1..47')	Total/NA	Solid	8082A	302635
240-87591-85 MSD	ED-00.08-SL03-(0.97-1..47')	Total/NA	Solid	8082A	302635

Prep Batch: 302955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-104	ED-00.72-SL02-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-105	ED-00.72-SL02-(1.0-1.5')	Total/NA	Solid	3540C	
240-87591-106	ED-01.24-SL01-(0-0.87')	Total/NA	Solid	3540C	
240-87591-107	ED-01.24-SL01-(0.87-1.0')	Total/NA	Solid	3540C	
240-87591-108	ED-01.14-SL03-(0-0.5')	Total/NA	Solid	3540C	

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QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

GC Semi VOA (Continued)

Prep Batch: 302955 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-109	ED-01.14-SL03-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-110	ED-01.14-SL03-(0.5-1.0')-FD	Total/NA	Solid	3540C	
240-87591-111	ED-01.49-SL02-(0-0.5')	Total/NA	Solid	3540C	
240-87591-112	ED-01.49-SL02-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-113	ED-01.37-SL01-(0-0.9')	Total/NA	Solid	3540C	
240-87591-114	ED-01.37-SL01-(0-0.9')-FD	Total/NA	Solid	3540C	
240-87591-115	ED-01.03-SL03-(0-0.21')	Total/NA	Solid	3540C	
240-87591-116	ED-01.03-SL03-(0.21-1.0')	Total/NA	Solid	3540C	
240-87591-117	ED-00.82-SL03-(0-0.5')	Total/NA	Solid	3540C	
240-87591-118	ED-00.82-SL03-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-119	ED-00.72-SL04-(0-0.11')	Total/NA	Solid	3540C	
240-87591-120	ED-00.72-SL04-(0.11-0.47')	Total/NA	Solid	3540C	
240-87591-121	ED-00.72-SL04-(0.47-1.0')	Total/NA	Solid	3540C	
240-87591-122	ED-01.49-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-123	ED-01.49-SL01-(0-0.5')-FD	Total/NA	Solid	3540C	
MB 240-302955/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-302955/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-87591-123 MS	ED-01.49-SL01-(0-0.5')-FD	Total/NA	Solid	3540C	
240-87591-123 MSD	ED-01.49-SL01-(0-0.5')-FD	Total/NA	Solid	3540C	

Prep Batch: 302976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-124	ED-01.24-SL03-(0-0.5')	Total/NA	Solid	3540C	
240-87591-125	ED-00.82-SL01-(0-0.22')	Total/NA	Solid	3540C	
240-87591-126	ED-00.82-SL01-(0.22-0.5')	Total/NA	Solid	3540C	
240-87591-127	ED-01.03-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-129	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	3540C	
MB 240-302976/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-302976/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-87591-129 MS	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-129 MSD	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	3540C	

Prep Batch: 302991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-54	ED-0060.SL01-(0.19-1.0')	Total/NA	Solid	3540C	
240-87591-69	ED-00.39-SL03-(0.98-1.17')	Total/NA	Solid	3540C	
240-87591-72	ED-00.39-SL01-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-89	ED-00.08-SL04-(0.86-1.36)	Total/NA	Solid	3540C	
240-87591-90	ED-00.08-SL04-(1.5-2.0')	Total/NA	Solid	3540C	
240-87591-91	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-92	ED-00.08-SL01-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-93	ED-00.08-SL01-(1.0-1.86')	Total/NA	Solid	3540C	
240-87591-94	ED-00.08-SL01-(1.86-2.0')	Total/NA	Solid	3540C	
240-87591-95	ED-01.37-SL03-(0-0.27')	Total/NA	Solid	3540C	
240-87591-96	ED-01.37-SL03-(0.27-0.92')	Total/NA	Solid	3540C	
240-87591-97	ED-01.37-SL03-(0.92-1.07')	Total/NA	Solid	3540C	
240-87591-98	ED-01.37-SL03-(1.07-2.0')	Total/NA	Solid	3540C	
240-87591-99	ED-01.49-SL04-(0-0.5')	Total/NA	Solid	3540C	
240-87591-100	ED-01.49-SL04-(0.5-1.0')	Total/NA	Solid	3540C	
240-87591-101	ED-01.49-SL04-(1.0-1.81')	Total/NA	Solid	3540C	
240-87591-102	ED-01.49-SL04-(1.81-2.0')	Total/NA	Solid	3540C	

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QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

GC Semi VOA (Continued)

Prep Batch: 302991 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-103	ED-00.72-SL02-(0-0.5)	Total/NA	Solid	3540C	
240-87591-128	ED-01.03-SL01-(0-0.5')-FD	Total/NA	Solid	3540C	
240-87591-133	ED-00.72-SL01-(0-0.5')-FD	Total/NA	Solid	3540C	
MB 240-302991/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-302991/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-87591-91 MS	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	3540C	
240-87591-91 MSD	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	3540C	

Prep Batch: 303031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-1	ED-00.08-SD02-(0-0.45')	Total/NA	Sediment	3540C	
240-87591-2	ED-00.08-SD02-(0.45-.75')	Total/NA	Sediment	3540C	
240-87591-3	ED-00.08-SD02-(0.75-1.4')	Total/NA	Sediment	3540C	
240-87591-4	ED-00.08-SD02-(0.75-1.4')-FD	Total/NA	Sediment	3540C	
240-87591-5	ED-00.08-SD02-(1.4-2.03')	Total/NA	Sediment	3540C	
240-87591-6	ED-00.25-SD01-(0.0-57')	Total/NA	Sediment	3540C	
240-87591-7	ED-00.25-SD01-(0.57-3.51')	Total/NA	Sediment	3540C	
240-87591-8	ED-00.25-SD01-(3.51-4.3')	Total/NA	Sediment	3540C	
240-87591-9	ED-00.25-SD01-(3.51-4.3')-DUP	Total/NA	Sediment	3540C	
240-87591-10	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	3540C	
240-87591-11	ED-00.39-SD02-(2.20-2.41')	Total/NA	Sediment	3540C	
240-87591-12	ED-00.39-SD02-(2.41-3.54')	Total/NA	Sediment	3540C	
240-87591-13	ED-00.39-SD02-(3.54-4.30')	Total/NA	Sediment	3540C	
240-87591-14	ED-00.47-SD02-(0-0.33')	Total/NA	Sediment	3540C	
240-87591-15	ED-00.47-SD02-(33-1.46')	Total/NA	Sediment	3540C	
240-87591-16	ED-00.47-SD02-(1.46-1.96')	Total/NA	Sediment	3540C	
240-87591-17	ED-00.47-SD02-(1.96-3.13')	Total/NA	Sediment	3540C	
240-87591-18	ED-00.51-SD02-(0-0.36')	Total/NA	Sediment	3540C	
240-87591-19	ED-00.51-SD02-(0.36-0.68')	Total/NA	Sediment	3540C	
MB 240-303031/23-A	Method Blank	Total/NA	Sediment	3540C	
LCS 240-303031/24-A	Lab Control Sample	Total/NA	Sediment	3540C	
240-87591-10 MS	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	3540C	
240-87591-10 MSD	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	3540C	

Analysis Batch: 303043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-67	ED-00.39-SL03-(0-0.69')-FD	Total/NA	Solid	8082A	302857
240-87591-68	ED-00.39-SL03-(0.69-0.98')	Total/NA	Solid	8082A	302857
240-87591-70	ED-00.39-SL03-(1.17-1.5')	Total/NA	Solid	8082A	302857
240-87591-71	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	8082A	302857
MB 240-302857/7-A	Method Blank	Total/NA	Solid	8082A	302857
LCS 240-302857/8-A	Lab Control Sample	Total/NA	Solid	8082A	302857
240-87591-71 MS	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	8082A	302857
240-87591-71 MSD	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	8082A	302857

Analysis Batch: 303080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-47	ED-00.82-SOL04-(0-0.13')	Total/NA	Solid	8082A	302802
240-87591-48	ED-00.82-SOL04-(0.13-0.5)	Total/NA	Solid	8082A	302802
240-87591-49	ED-00.72-SL01-(0-0.50')	Total/NA	Solid	8082A	302802
240-87591-50	ED-00.72-SL01-(0.50-1.0')	Total/NA	Solid	8082A	302802

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

GC Semi VOA (Continued)

Analysis Batch: 303080 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-51	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	8082A	302802
240-87591-52	ED-00.60-SL03-(0.89-1.0')	Total/NA	Solid	8082A	302802
240-87591-53	ED-0060.SL01-(0-0.19')	Total/NA	Solid	8082A	302802
240-87591-55	ED-00.51-SL03-(0-0.5')	Total/NA	Solid	8082A	302802
240-87591-56	ED-00.51-SL03-(0.5-1.0')	Total/NA	Solid	8082A	302802
240-87591-57	ED-00.51-SL03-(0-0.5')-FD	Total/NA	Solid	8082A	302802
240-87591-58	ED-00.51-SL01-(0-0.5')	Total/NA	Solid	8082A	302802
240-87591-59	ED-00.51.SL01-(0.5-1.0')	Total/NA	Solid	8082A	302802
240-87591-60	ED-00.47-SL04-(0-0.80')	Total/NA	Solid	8082A	302802
240-87591-61	ED-00.47-SL03-(0-0.77')	Total/NA	Solid	8082A	302802
240-87591-62	ED-00.47-SL03-(0-0.77')-FD	Total/NA	Solid	8082A	302802
240-87591-63	ED-00.47-SL01-(0-0.5')	Total/NA	Solid	8082A	302802
240-87591-64	ED-00.39-SL04-(0-0.50')	Total/NA	Solid	8082A	302802
240-87591-65	ED-00.39-SL04-(0.50-1.0')	Total/NA	Solid	8082A	302802
240-87591-66	ED-00.39-SL03-(0-0.69')	Total/NA	Solid	8082A	302802
MB 240-302802/23-A	Method Blank	Total/NA	Solid	8082A	302802
LCS 240-302802/24-A	Lab Control Sample	Total/NA	Solid	8082A	302802
240-87591-51 MS	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	8082A	302802
240-87591-51 MSD	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	8082A	302802

Prep Batch: 303095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-22	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	3540C	
240-87591-23	ED-00.60-SD02-(1.76-2.22')	Total/NA	Sediment	3540C	
240-87591-24	ED-00.60-SD02-(2.22-2.39')	Total/NA	Sediment	3540C	
240-87591-25	ED-00.60-SD02-(2.39-2.63')	Total/NA	Sediment	3540C	
240-87591-26	ED-00.60-SD02-(2.63-3.30')	Total/NA	Sediment	3540C	
240-87591-27	ED-00.72-SD03-(0-2.06')	Total/NA	Sediment	3540C	
240-87591-28	ED-00.72-SD03-(2.06-2.40')	Total/NA	Sediment	3540C	
240-87591-29	ED-00.72-SD03-(2.40-3.50')	Total/NA	Sediment	3540C	
240-87591-30	ED-00.72-SD03-(3.50-3.84')	Total/NA	Sediment	3540C	
240-87591-31	ED-00.72-SD03-(3.84-4.05')	Total/NA	Sediment	3540C	
240-87591-32	ED-00.72-SD03-(4.05-4.30')	Total/NA	Sediment	3540C	
240-87591-33	ED-00.72-SD03-(2.40-3.50)-FD	Total/NA	Sediment	3540C	
240-87591-35	ED-00.82-SD02-(0.39-0.70')	Total/NA	Sediment	3540C	
240-87591-36	ED.01.03-SD02-(0-0.98)	Total/NA	Sediment	3540C	
240-87591-37	ED.01.03-SD02-(0-0.98)-FD	Total/NA	Sediment	3540C	
240-87591-38	ED-01.03-SD02-(0.98-1.65')	Total/NA	Sediment	3540C	
240-87591-39	ED-01.03-SD02-(0.98-1.65')-FD	Total/NA	Sediment	3540C	
240-87591-40	ED-01.03-SD02-(1.65-1.87')	Total/NA	Sediment	3540C	
240-87591-41	ED-01.03-SD02-(1.87-2.25')	Total/NA	Sediment	3540C	
240-87591-46	ED-01.49-SD03-(0-0.70')	Total/NA	Sediment	3540C	
MB 240-303095/23-A	Method Blank	Total/NA	Sediment	3540C	
LCS 240-303095/24-A	Lab Control Sample	Total/NA	Sediment	3540C	
240-87591-22 MS	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	3540C	
240-87591-22 MSD	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	3540C	

Prep Batch: 303098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-20	ED-00.51-SD02-(0.68-1.65')	Total/NA	Sediment	3540C	
240-87591-21	ED-00.51-SD02-(1.65-1.75')	Total/NA	Sediment	3540C	

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

GC Semi VOA (Continued)

Prep Batch: 303098 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-34	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	3540C	
240-87591-42	ED-01.14-SD02-(0-1.05')	Total/NA	Sediment	3540C	
240-87591-43	ED-01.22-SD02-(0-0.17')	Total/NA	Sediment	3540C	
240-87591-44	ED-01.22-SD02-(0.17-0.29')	Total/NA	Sediment	3540C	
240-87591-45	ED-01.37-SD02-(0-0.9')	Total/NA	Sediment	3540C	
240-87591-131	SOIL-SED DRUM	Total/NA	Sediment	3540C	
MB 240-303098/23-A	Method Blank	Total/NA	Sediment	3540C	
LCS 240-303098/24-A	Lab Control Sample	Total/NA	Sediment	3540C	
240-87591-34 MS	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	3540C	
240-87591-34 MSD	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	3540C	

Analysis Batch: 303127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-22	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	8082A	303095
240-87591-23	ED-00.60-SD02-(1.76-2.22')	Total/NA	Sediment	8082A	303095
240-87591-24	ED-00.60-SD02-(2.22-2.39')	Total/NA	Sediment	8082A	303095
240-87591-25	ED-00.60-SD02-(2.39-2.63')	Total/NA	Sediment	8082A	303095
240-87591-26	ED-00.60-SD02-(2.63-3.30')	Total/NA	Sediment	8082A	303095
240-87591-27	ED-00.72-SD03-(0-2.06')	Total/NA	Sediment	8082A	303095
240-87591-28	ED-00.72-SD03-(2.06-2.40')	Total/NA	Sediment	8082A	303095
240-87591-29	ED-00.72-SD03-(2.40-3.50')	Total/NA	Sediment	8082A	303095
240-87591-30	ED-00.72-SD03-(3.50-3.84')	Total/NA	Sediment	8082A	303095
240-87591-31	ED-00.72-SD03-(3.84-4.05')	Total/NA	Sediment	8082A	303095
240-87591-32	ED-00.72-SD03-(4.05-4.30')	Total/NA	Sediment	8082A	303095
240-87591-33	ED-00.72-SD03-(2.40-3.50)-FD	Total/NA	Sediment	8082A	303095
240-87591-35	ED-00.82-SD02-(0.39-0.70')	Total/NA	Sediment	8082A	303095
240-87591-36	ED-01.03-SD02-(0-0.98)	Total/NA	Sediment	8082A	303095
240-87591-38	ED-01.03-SD02-(0.98-1.65')	Total/NA	Sediment	8082A	303095
240-87591-39	ED-01.03-SD02-(0.98-1.65)-FD	Total/NA	Sediment	8082A	303095
240-87591-40	ED-01.03-SD02-(1.65-1.87')	Total/NA	Sediment	8082A	303095
240-87591-41	ED-01.03-SD02-(1.87-2.25')	Total/NA	Sediment	8082A	303095
240-87591-46	ED-01.49-SD03-(0-0.70')	Total/NA	Sediment	8082A	303095
MB 240-303095/23-A	Method Blank	Total/NA	Sediment	8082A	303095
LCS 240-303095/24-A	Lab Control Sample	Total/NA	Sediment	8082A	303095

Analysis Batch: 303135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-20	ED-00.51-SD02-(0.68-1.65')	Total/NA	Sediment	8082A	303098
240-87591-21	ED-00.51-SD02-(1.65-1.75')	Total/NA	Sediment	8082A	303098
240-87591-34	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	8082A	303098
240-87591-42	ED-01.14-SD02-(0-1.05')	Total/NA	Sediment	8082A	303098
240-87591-43	ED-01.22-SD02-(0-0.17')	Total/NA	Sediment	8082A	303098
240-87591-44	ED-01.22-SD02-(0.17-0.29')	Total/NA	Sediment	8082A	303098
240-87591-45	ED-01.37-SD02-(0-0.9')	Total/NA	Sediment	8082A	303098
240-87591-131	SOIL-SED DRUM	Total/NA	Sediment	8082A	303098
MB 240-303098/23-A	Method Blank	Total/NA	Sediment	8082A	303098
LCS 240-303098/24-A	Lab Control Sample	Total/NA	Sediment	8082A	303098
240-87591-34 MS	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	8082A	303098
240-87591-34 MSD	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	8082A	303098

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

GC Semi VOA (Continued)

Analysis Batch: 303214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-124	ED-01.24-SL03-(0-0.5')	Total/NA	Solid	8082A	302976
240-87591-125	ED-00.82-SL01-(0-0.22')	Total/NA	Solid	8082A	302976
240-87591-126	ED-00.82-SL01-(0.22-0.5')	Total/NA	Solid	8082A	302976
240-87591-127	ED-01.03-SL01-(0-0.5')	Total/NA	Solid	8082A	302976
MB 240-302976/23-A	Method Blank	Total/NA	Solid	8082A	302976
LCS 240-302976/24-A	Lab Control Sample	Total/NA	Solid	8082A	302976

Analysis Batch: 303227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-1	ED-00.08-SD02-(0-0.45')	Total/NA	Sediment	8082A	303031
240-87591-2	ED-00.08-SD02-(0.45-0.75')	Total/NA	Sediment	8082A	303031
240-87591-3	ED-00.08-SD02-(0.75-1.4')	Total/NA	Sediment	8082A	303031
240-87591-4	ED-00.08-SD02-(0.75-1.4')-FD	Total/NA	Sediment	8082A	303031
240-87591-5	ED-00.08-SD02-(1.4-2.03')	Total/NA	Sediment	8082A	303031
240-87591-6	ED-00.25-SD01-(0.0-57')	Total/NA	Sediment	8082A	303031
240-87591-7	ED-00.25-SD01-(0.57-3.51')	Total/NA	Sediment	8082A	303031
240-87591-8	ED-00.25-SD01-(3.51-4.3')	Total/NA	Sediment	8082A	303031
240-87591-9	ED-00.25-SD01-(3.51-4.3')-DUP	Total/NA	Sediment	8082A	303031
240-87591-10	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	8082A	303031
240-87591-11	ED-00.39-SD02-(2.20-2.41')	Total/NA	Sediment	8082A	303031
240-87591-12	ED-00.39-SD02-(2.41-3.54')	Total/NA	Sediment	8082A	303031
240-87591-13	ED-00.39-SD02-(3.54-4.30')	Total/NA	Sediment	8082A	303031
240-87591-14	ED-00.47-SD02-(0-0.33')	Total/NA	Sediment	8082A	303031
240-87591-15	ED-00.47-SD02-(33-1.46')	Total/NA	Sediment	8082A	303031
240-87591-16	ED-00.47-SD02-(1.46-1.96')	Total/NA	Sediment	8082A	303031
240-87591-17	ED-00.47-SD02-(1.96-3.13')	Total/NA	Sediment	8082A	303031
240-87591-18	ED-00.51-SD02-(0-0.36')	Total/NA	Sediment	8082A	303031
240-87591-19	ED-00.51-SD02-(0.36-0.68')	Total/NA	Sediment	8082A	303031
MB 240-303031/23-A	Method Blank	Total/NA	Sediment	8082A	303031
LCS 240-303031/24-A	Lab Control Sample	Total/NA	Sediment	8082A	303031
240-87591-10 MS	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	8082A	303031
240-87591-10 MSD	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	8082A	303031

Analysis Batch: 303305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-54	ED-0060.SL01-(0.19-1.0')	Total/NA	Solid	8082A	302991
240-87591-69	ED-00.39-SL03-(0.98-1.17')	Total/NA	Solid	8082A	302991
240-87591-72	ED-00.39-SL01-(0.5-1.0')	Total/NA	Solid	8082A	302991
240-87591-89	ED-00.08-SL04-(0.86-1.36)	Total/NA	Solid	8082A	302991
240-87591-90	ED-00.08-SL04-(1.5-2.0')	Total/NA	Solid	8082A	302991
240-87591-91	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	8082A	302991
240-87591-92	ED-00.08-SL01-(0.5-1.0')	Total/NA	Solid	8082A	302991
240-87591-93	ED-00.08-SL01-(1.0-1.86')	Total/NA	Solid	8082A	302991
240-87591-94	ED-00.08-SL01-(1.86-2.0')	Total/NA	Solid	8082A	302991
240-87591-95	ED-01.37-SL03-(0-0.27')	Total/NA	Solid	8082A	302991
240-87591-96	ED-01.37-SL03-(0.27-0.92')	Total/NA	Solid	8082A	302991
240-87591-97	ED-01.37-SL03-(0.92-1.07')	Total/NA	Solid	8082A	302991
240-87591-98	ED-01.37-SL03-(1.07-2.0')	Total/NA	Solid	8082A	302991
240-87591-99	ED-01.49-SL04-(0-0.5')	Total/NA	Solid	8082A	302991
240-87591-100	ED-01.49-SL04-(0.5-1.0')	Total/NA	Solid	8082A	302991
240-87591-101	ED-01.49-SL04-(1.0-1.81')	Total/NA	Solid	8082A	302991

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

GC Semi VOA (Continued)

Analysis Batch: 303305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-102	ED-01.49-SL04-(1.81-2.0')	Total/NA	Solid	8082A	302991
240-87591-103	ED-00.72-SL02-(0-0.5')	Total/NA	Solid	8082A	302991
240-87591-128	ED-01.03-SL01-(0-0.5')-FD	Total/NA	Solid	8082A	302991
240-87591-133	ED-00.72-SL01-(0-0.5')-FD	Total/NA	Solid	8082A	302991
MB 240-302991/23-A	Method Blank	Total/NA	Solid	8082A	302991
LCS 240-302991/24-A	Lab Control Sample	Total/NA	Solid	8082A	302991
240-87591-91 MS	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	8082A	302991
240-87591-91 MSD	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	8082A	302991

Analysis Batch: 303311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-129	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	8082A	302976
240-87591-129 MS	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	8082A	302976
240-87591-129 MSD	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	8082A	302976

Analysis Batch: 303313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-104	ED-00.72-SL02-(0.5-1.0')	Total/NA	Solid	8082A	302955
240-87591-107	ED-01.24-SL01-(0.87-1.0')	Total/NA	Solid	8082A	302955
240-87591-108	ED-01.14-SL03-(0-0.5')	Total/NA	Solid	8082A	302955
240-87591-109	ED-01.14-SL03-(0.5-1.0')	Total/NA	Solid	8082A	302955
240-87591-110	ED-01.14-SL03-(0.5-1.0')-FD	Total/NA	Solid	8082A	302955
240-87591-111	ED-01.49-SL02-(0-0.5')	Total/NA	Solid	8082A	302955
240-87591-112	ED-01.49-SL02-(0.5-1.0')	Total/NA	Solid	8082A	302955
240-87591-113	ED-01.37-SL01-(0-0.9')	Total/NA	Solid	8082A	302955
240-87591-114	ED-01.37-SL01-(0-0.9')-FD	Total/NA	Solid	8082A	302955
240-87591-115	ED-01.03-SL03-(0-0.21')	Total/NA	Solid	8082A	302955
240-87591-116	ED-01.03-SL03-(0.21-1.0')	Total/NA	Solid	8082A	302955
240-87591-117	ED-00.82-SL03-(0-0.5')	Total/NA	Solid	8082A	302955
240-87591-118	ED-00.82-SL03-(0.5-1.0')	Total/NA	Solid	8082A	302955
240-87591-119	ED-00.72-SL04-(0-0.11')	Total/NA	Solid	8082A	302955
240-87591-120	ED-00.72-SL04-(0.11-0.47')	Total/NA	Solid	8082A	302955
240-87591-121	ED-00.72-SL04-(0.47-1.0')	Total/NA	Solid	8082A	302955
240-87591-122	ED-01.49-SL01-(0-0.5')	Total/NA	Solid	8082A	302955
240-87591-123	ED-01.49-SL01-(0-0.5')-FD	Total/NA	Solid	8082A	302955
MB 240-302955/23-A	Method Blank	Total/NA	Solid	8082A	302955
LCS 240-302955/24-A	Lab Control Sample	Total/NA	Solid	8082A	302955
240-87591-123 MS	ED-01.49-SL01-(0-0.5')-FD	Total/NA	Solid	8082A	302955
240-87591-123 MSD	ED-01.49-SL01-(0-0.5')-FD	Total/NA	Solid	8082A	302955

Analysis Batch: 303440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-37	ED.01.03-SD02-(0-0.98)-FD	Total/NA	Sediment	8082A	303095
240-87591-22 MS	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	8082A	303095
240-87591-22 MSD	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	8082A	303095

Analysis Batch: 303503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-105	ED-00.72-SL02-(1.0-1.5')	Total/NA	Solid	8082A	302955
240-87591-106	ED-01.24-SL01-(0-0.87')	Total/NA	Solid	8082A	302955

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

General Chemistry

Analysis Batch: 302543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-1	ED-00.08-SD02-(0-0.45')	Total/NA	Sediment	Moisture	
240-87591-2	ED-00.08-SD02-(0.45-.75')	Total/NA	Sediment	Moisture	
240-87591-3	ED-00.08-SD02-(0.75-1.4')	Total/NA	Sediment	Moisture	
240-87591-4	ED-00.08-SD02-(0.75-1.4')-FD	Total/NA	Sediment	Moisture	
240-87591-5	ED-00.08-SD02-(1.4-2.03')	Total/NA	Sediment	Moisture	
240-87591-6	ED-00.25-SD01-(0.0-57')	Total/NA	Sediment	Moisture	
240-87591-7	ED-00.25-SD01-(0.57-3.51')	Total/NA	Sediment	Moisture	
240-87591-8	ED-00.25-SD01-(3.51-4.3')	Total/NA	Sediment	Moisture	
240-87591-9	ED-00.25-SD01-(3.51-4.3')-DUP	Total/NA	Sediment	Moisture	
240-87591-10	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	Moisture	
240-87591-11	ED-00.39-SD02-(2.20-2.41')	Total/NA	Sediment	Moisture	
240-87591-12	ED-00.39-SD02-(2.41-3.54')	Total/NA	Sediment	Moisture	
240-87591-13	ED-00.39-SD02-(3.54-4.30')	Total/NA	Sediment	Moisture	
240-87591-14	ED-00.47-SD02-(0-0.33')	Total/NA	Sediment	Moisture	
240-87591-15	ED-00.47-SD02-(33-1.46')	Total/NA	Sediment	Moisture	
240-87591-16	ED-00.47-SD02-(1.46-1.96')	Total/NA	Sediment	Moisture	
240-87591-17	ED-00.47-SD02-(1.96-3.13')	Total/NA	Sediment	Moisture	
240-87591-18	ED-00.51-SD02-(0-0.36')	Total/NA	Sediment	Moisture	
240-87591-19	ED-00.51-SD02-(0.36-0.68')	Total/NA	Sediment	Moisture	
240-87591-20	ED-00.51-SD02-(0.68-1.65')	Total/NA	Sediment	Moisture	
240-87591-21	ED-00.51-SD02-(1.65-1.75')	Total/NA	Sediment	Moisture	
240-87591-22	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	Moisture	
240-87591-23	ED-00.60-SD02-(1.76-2.22')	Total/NA	Sediment	Moisture	
240-87591-24	ED-00.60-SD02-(2.22-2.39')	Total/NA	Sediment	Moisture	
240-87591-25	ED-00.60-SD02-(2.39-2.63')	Total/NA	Sediment	Moisture	
240-87591-26	ED-00.60-SD02-(2.63-3.30')	Total/NA	Sediment	Moisture	
240-87591-27	ED-00.72-SD03-(0-2.06')	Total/NA	Sediment	Moisture	
240-87591-28	ED-00.72-SD03-(2.06-2.40')	Total/NA	Sediment	Moisture	
240-87591-29	ED-00.72-SD03-(2.40-3.50')	Total/NA	Sediment	Moisture	
240-87591-30	ED-00.72-SD03-(3.50-3.84')	Total/NA	Sediment	Moisture	
240-87591-31	ED-00.72-SD03-(3.84-4.05')	Total/NA	Sediment	Moisture	
240-87591-32	ED-00.72-SD03-(4.05-4.30')	Total/NA	Sediment	Moisture	
240-87591-33	ED-00.72-SD03-(2.40-3.50)-FD	Total/NA	Sediment	Moisture	
240-87591-34	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	Moisture	
240-87591-35	ED-00.82-SD02-(0.39-0.70')	Total/NA	Sediment	Moisture	
240-87591-36	ED.01.03-SD02-(0-0.98)	Total/NA	Sediment	Moisture	
240-87591-37	ED.01.03-SD02-(0-0.98)-FD	Total/NA	Sediment	Moisture	
240-87591-38	ED-01.03-SD02-(0.98-1.65')	Total/NA	Sediment	Moisture	
240-87591-39	ED-01.03-SD02-(0.98-1.65')-FD	Total/NA	Sediment	Moisture	
240-87591-40	ED-01.03-SD02-(1.65-1.87')	Total/NA	Sediment	Moisture	
240-87591-41	ED-01.03-SD02-(1.87-2.25')	Total/NA	Sediment	Moisture	
240-87591-42	ED-01.14-SD02-(0-1.05')	Total/NA	Sediment	Moisture	
240-87591-43	ED-01.22-SD02-(0-0.17')	Total/NA	Sediment	Moisture	
240-87591-44	ED-01.22-SD02-(0.17-0.29')	Total/NA	Sediment	Moisture	
240-87591-45	ED-01.37-SD02-(0-0.9')	Total/NA	Sediment	Moisture	
240-87591-46	ED-01.49-SD03-(0-0.70')	Total/NA	Sediment	Moisture	
240-87591-47	ED-00.82-SOL04-(0-0.13')	Total/NA	Solid	Moisture	
240-87591-48	ED-00.82-SOL04-(0.13-0.5)	Total/NA	Solid	Moisture	
240-87591-49	ED-00.72-SL01-(0-0.50')	Total/NA	Solid	Moisture	
240-87591-50	ED-00.72-SL01-(0.50-1.0')	Total/NA	Solid	Moisture	
240-87591-51	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	Moisture	

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

General Chemistry (Continued)

Analysis Batch: 302543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-52	ED-00.60-SL03-(0.89-1.0')	Total/NA	Solid	Moisture	
240-87591-53	ED-0060.SL01-(0-0.19')	Total/NA	Solid	Moisture	
240-87591-54	ED-0060.SL01-(0.19-1.0')	Total/NA	Solid	Moisture	
240-87591-55	ED-00.51-SL03-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-56	ED-00.51-SL03-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-57	ED-00.51-SL03-(0-0.5')-FD	Total/NA	Solid	Moisture	
240-87591-58	ED-00.51-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-59	ED-00.51.SL01-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-60	ED-00.47-SL04-(0-0.80')	Total/NA	Solid	Moisture	
240-87591-61	ED-00.47-SL03-(0-0.77')	Total/NA	Solid	Moisture	
240-87591-62	ED-00.47-SL03-(0-0.77')-FD	Total/NA	Solid	Moisture	
240-87591-63	ED-00.47-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-64	ED-00.39-SL04-(0-0.50')	Total/NA	Solid	Moisture	
240-87591-65	ED-00.39-SL04-(0.50-1.0')	Total/NA	Solid	Moisture	
240-87591-66	ED-00.39-SL03-(0-0.69')	Total/NA	Solid	Moisture	
240-87591-67	ED-00.39-SL03-(0-0.69')-FD	Total/NA	Solid	Moisture	
240-87591-68	ED-00.39-SL03-(0.69-0.98')	Total/NA	Solid	Moisture	
240-87591-69	ED-00.39-SL03-(0.98-1.17')	Total/NA	Solid	Moisture	
240-87591-70	ED-00.39-SL03-(1.17-1.5')	Total/NA	Solid	Moisture	
240-87591-5 DU	ED-00.08-SD02-(1.4-2.03')	Total/NA	Sediment	Moisture	
240-87591-10 DU	ED-00.39-SD02-(0-2.20')	Total/NA	Sediment	Moisture	
240-87591-22 DU	ED-00.60-SD02-(0-1.76')	Total/NA	Sediment	Moisture	
240-87591-34 DU	ED-00.82-SD02-(0-0.39')	Total/NA	Sediment	Moisture	
240-87591-39 DU	ED-01.03-SD02-(0.98-1.65')-FD	Total/NA	Sediment	Moisture	
240-87591-48 DU	ED-00.82-SOL04-(0.13-0.5)	Total/NA	Solid	Moisture	
240-87591-51 DU	ED-00.60-SL03-(0-0.89')	Total/NA	Solid	Moisture	
240-87591-65 DU	ED-00.39-SL04-(0.50-1.0')	Total/NA	Solid	Moisture	

Analysis Batch: 302739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-71	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-72	ED-00.39-SL01-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-73	ED-00.25-SL04-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-74	ED-00.25-SL04-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-75	ED-00.25-SL04-(1.0-1.5')	Total/NA	Solid	Moisture	
240-87591-76	ED-00.25-SL04-(1.5-2.0')	Total/NA	Solid	Moisture	
240-87591-77	ED-00.25-SL03-(0.0.5')	Total/NA	Solid	Moisture	
240-87591-78	ED-00.25-SL03-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-79	ED-00.25-SL02-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-80	ED-00.25-SL02-(0-0.5')-FD	Total/NA	Solid	Moisture	
240-87591-81	ED-00.25-SL02-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-82	ED-00.25-SL02-(1.0-1.5')	Total/NA	Solid	Moisture	
240-87591-83	ED-00.08-SL03-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-84	ED-00.08-SL03-(0.5-0.97')	Total/NA	Solid	Moisture	
240-87591-85	ED-00.08-SL03-(0.97-1.47')	Total/NA	Solid	Moisture	
240-87591-86	ED-00.08-SL03-(1.5-2.0')	Total/NA	Solid	Moisture	
240-87591-87	ED-00.08-SL04-(0-0.67)	Total/NA	Solid	Moisture	
240-87591-88	ED-00.08-SL04-(0.67-0.86)	Total/NA	Solid	Moisture	
240-87591-89	ED-00.08-SL04-(0.86-1.36)	Total/NA	Solid	Moisture	
240-87591-90	ED-00.08-SL04-(1.5-2.0')	Total/NA	Solid	Moisture	
240-87591-91	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	Moisture	

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

General Chemistry (Continued)

Analysis Batch: 302739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-87591-92	ED-00.08-SL01-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-93	ED-00.08-SL01-(1.0-1.86')	Total/NA	Solid	Moisture	
240-87591-94	ED-00.08-SL01-(1.86-2.0')	Total/NA	Solid	Moisture	
240-87591-95	ED-01.37-SL03-(0-0.27')	Total/NA	Solid	Moisture	
240-87591-96	ED-01.37-SL03-(0.27-0.92')	Total/NA	Solid	Moisture	
240-87591-97	ED-01.37-SL03-(0.92-1.07')	Total/NA	Solid	Moisture	
240-87591-98	ED-01.37-SL03-(1.07-2.0')	Total/NA	Solid	Moisture	
240-87591-99	ED-01.49-SL04-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-100	ED-01.49-SL04-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-101	ED-01.49-SL04-(1.0-1.81')	Total/NA	Solid	Moisture	
240-87591-102	ED-01.49-SL04-(1.81-2.0')	Total/NA	Solid	Moisture	
240-87591-103	ED-00.72-SL02-(0-0.5)	Total/NA	Solid	Moisture	
240-87591-104	ED-00.72-SL02-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-105	ED-00.72-SL02-(1.0-1.5')	Total/NA	Solid	Moisture	
240-87591-106	ED-01.24-SL01-(0-0.87')	Total/NA	Solid	Moisture	
240-87591-107	ED-01.24-SL01-(0.87-1.0')	Total/NA	Solid	Moisture	
240-87591-108	ED-01.14-SL03-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-109	ED-01.14-SL03-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-110	ED-01.14-SL03-(0.5-1.0')-FD	Total/NA	Solid	Moisture	
240-87591-111	ED-01.49-SL02-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-112	ED-01.49-SL02-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-113	ED-01.37-SL01-(0-0.9')	Total/NA	Solid	Moisture	
240-87591-114	ED-01.37-SL01-(0-0.9')-FD	Total/NA	Solid	Moisture	
240-87591-115	ED-01.03-SL03-(0-0.21')	Total/NA	Solid	Moisture	
240-87591-116	ED-01.03-SL03-(0.21-1.0')	Total/NA	Solid	Moisture	
240-87591-117	ED-00.82-SL03-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-118	ED-00.82-SL03-(0.5-1.0')	Total/NA	Solid	Moisture	
240-87591-119	ED-00.72-SL04-(0-0.11')	Total/NA	Solid	Moisture	
240-87591-120	ED-00.72-SL04-(0.11-0.47')	Total/NA	Solid	Moisture	
240-87591-121	ED-00.72-SL04-(0.47-1.0')	Total/NA	Solid	Moisture	
240-87591-122	ED-01.49-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-123	ED-01.49-SL01-(0-0.5')-FD	Total/NA	Solid	Moisture	
240-87591-124	ED-01.24-SL03-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-125	ED-00.82-SL01-(0-0.22')	Total/NA	Solid	Moisture	
240-87591-126	ED-00.82-SL01-(0.22-0.5')	Total/NA	Solid	Moisture	
240-87591-127	ED-01.03-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-128	ED-01.03-SL01-(0-0.5')-FD	Total/NA	Solid	Moisture	
240-87591-129	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-131	SOIL-SED DRUM	Total/NA	Sediment	Moisture	
240-87591-133	ED-00.72-SL01-(0-0.5')-FD	Total/NA	Solid	Moisture	
240-87591-71 DU	ED-00.39-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-80 DU	ED-00.25-SL02-(0-0.5')-FD	Total/NA	Solid	Moisture	
240-87591-89 DU	ED-00.08-SL04-(0.86-1.36)	Total/NA	Solid	Moisture	
240-87591-91 DU	ED-00.08-SL01-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-108 DU	ED-01.14-SL03-(0-0.5')	Total/NA	Solid	Moisture	
240-87591-116 DU	ED-01.03-SL03-(0.21-1.0')	Total/NA	Solid	Moisture	
240-87591-129 DU	ED-01.14-SL01-(0-0.5')	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SD02-(0-0.45')

Date Collected: 10/30/17 11:20

Date Received: 11/07/17 17:00

Lab Sample ID: 240-87591-1

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.08-SD02-(0-0.45')

Date Collected: 10/30/17 11:20

Date Received: 11/07/17 17:00

Lab Sample ID: 240-87591-1

Matrix: Sediment

Percent Solids: 54.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/13/17 20:24	KMG	TAL CAN

Client Sample ID: ED-00.08-SD02-(0.45-.75')

Date Collected: 10/30/17 11:25

Date Received: 11/07/17 17:00

Lab Sample ID: 240-87591-2

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.08-SD02-(0.45-.75')

Date Collected: 10/30/17 11:25

Date Received: 11/07/17 17:00

Lab Sample ID: 240-87591-2

Matrix: Sediment

Percent Solids: 54.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303227	11/13/17 20:42	KMG	TAL CAN

Client Sample ID: ED-00.08-SD02-(0.75-1.4')

Date Collected: 10/30/17 11:30

Date Received: 11/07/17 17:00

Lab Sample ID: 240-87591-3

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.08-SD02-(0.75-1.4')

Date Collected: 10/30/17 11:30

Date Received: 11/07/17 17:00

Lab Sample ID: 240-87591-3

Matrix: Sediment

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/13/17 21:00	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SD02-(0.75-1.4')-FD

Lab Sample ID: 240-87591-4

Date Collected: 10/30/17 11:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.08-SD02-(0.75-1.4')-FD

Lab Sample ID: 240-87591-4

Date Collected: 10/30/17 11:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/13/17 21:19	KMG	TAL CAN

Client Sample ID: ED-00.08-SD02-(1.4-2.03')

Lab Sample ID: 240-87591-5

Date Collected: 10/30/17 11:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.08-SD02-(1.4-2.03')

Lab Sample ID: 240-87591-5

Date Collected: 10/30/17 11:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303227	11/13/17 21:37	KMG	TAL CAN

Client Sample ID: ED-00.25-SD01-(0.0-57')

Lab Sample ID: 240-87591-6

Date Collected: 11/01/17 11:46

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.25-SD01-(0.0-57')

Lab Sample ID: 240-87591-6

Date Collected: 11/01/17 11:46

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/13/17 21:55	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SD01-(0.57-3.51')

Lab Sample ID: 240-87591-7

Date Collected: 11/01/17 12:01

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.25-SD01-(0.57-3.51')

Lab Sample ID: 240-87591-7

Date Collected: 11/01/17 12:01

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/13/17 22:14	KMG	TAL CAN

Client Sample ID: ED-00.25-SD01-(3.51-4.3')

Lab Sample ID: 240-87591-8

Date Collected: 11/01/17 12:19

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.25-SD01-(3.51-4.3')

Lab Sample ID: 240-87591-8

Date Collected: 11/01/17 12:19

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303227	11/13/17 22:32	KMG	TAL CAN

Client Sample ID: ED-00.25-SD01-(3.51-4.3')-DUP

Lab Sample ID: 240-87591-9

Date Collected: 11/01/17 12:19

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.25-SD01-(3.51-4.3')-DUP

Lab Sample ID: 240-87591-9

Date Collected: 11/01/17 12:19

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303227	11/13/17 22:50	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SD02-(0-2.20')

Lab Sample ID: 240-87591-10

Date Collected: 11/01/17 13:35

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.39-SD02-(0-2.20')

Lab Sample ID: 240-87591-10

Date Collected: 11/01/17 13:35

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/13/17 23:09	KMG	TAL CAN

Client Sample ID: ED-00.39-SD02-(2.20-2.41')

Lab Sample ID: 240-87591-11

Date Collected: 11/01/17 13:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.39-SD02-(2.20-2.41')

Lab Sample ID: 240-87591-11

Date Collected: 11/01/17 13:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303227	11/14/17 00:04	KMG	TAL CAN

Client Sample ID: ED-00.39-SD02-(2.41-3.54')

Lab Sample ID: 240-87591-12

Date Collected: 11/01/17 13:45

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.39-SD02-(2.41-3.54')

Lab Sample ID: 240-87591-12

Date Collected: 11/01/17 13:45

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303227	11/14/17 00:22	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SD02-(3.54-4.30')

Lab Sample ID: 240-87591-13

Date Collected: 11/01/17 14:00

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.39-SD02-(3.54-4.30')

Lab Sample ID: 240-87591-13

Date Collected: 11/01/17 14:00

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 67.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303227	11/14/17 00:41	KMG	TAL CAN

Client Sample ID: ED-00.47-SD02-(0-0.33')

Lab Sample ID: 240-87591-14

Date Collected: 10/30/17 14:10

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.47-SD02-(0-0.33')

Lab Sample ID: 240-87591-14

Date Collected: 10/30/17 14:10

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/14/17 00:59	KMG	TAL CAN

Client Sample ID: ED-00.47-SD02-(33-1.46')

Lab Sample ID: 240-87591-15

Date Collected: 10/30/17 14:15

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.47-SD02-(33-1.46')

Lab Sample ID: 240-87591-15

Date Collected: 10/30/17 14:15

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 61.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303227	11/14/17 01:17	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.47-SD02-(1.46-1.96')

Lab Sample ID: 240-87591-16

Date Collected: 10/30/17 14:20

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.47-SD02-(1.46-1.96')

Lab Sample ID: 240-87591-16

Date Collected: 10/30/17 14:20

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 75.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/14/17 02:31	KMG	TAL CAN

Client Sample ID: ED-00.47-SD02-(1.96-3.13')

Lab Sample ID: 240-87591-17

Date Collected: 10/30/17 14:25

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.47-SD02-(1.96-3.13')

Lab Sample ID: 240-87591-17

Date Collected: 10/30/17 14:25

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303227	11/14/17 02:49	KMG	TAL CAN

Client Sample ID: ED-00.51-SD02-(0-0.36')

Lab Sample ID: 240-87591-18

Date Collected: 11/01/17 14:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.51-SD02-(0-0.36')

Lab Sample ID: 240-87591-18

Date Collected: 11/01/17 14:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/14/17 03:07	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.51-SD02-(0.36-0.68')

Lab Sample ID: 240-87591-19

Date Collected: 11/01/17 14:45

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.51-SD02-(0.36-0.68')

Lab Sample ID: 240-87591-19

Date Collected: 11/01/17 14:45

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 62.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303031	11/10/17 12:42	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303227	11/14/17 03:26	KMG	TAL CAN

Client Sample ID: ED-00.51-SD02-(0.68-1.65')

Lab Sample ID: 240-87591-20

Date Collected: 11/01/17 14:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.51-SD02-(0.68-1.65')

Lab Sample ID: 240-87591-20

Date Collected: 11/01/17 14:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 44.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 12:08	LSH	TAL CAN

Client Sample ID: ED-00.51-SD02-(1.65-1.75')

Lab Sample ID: 240-87591-21

Date Collected: 11/01/17 14:55

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.51-SD02-(1.65-1.75')

Lab Sample ID: 240-87591-21

Date Collected: 11/01/17 14:55

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 57.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 13:03	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.60-SD02-(0-1.76')

Lab Sample ID: 240-87591-22

Date Collected: 10/31/17 11:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.60-SD02-(0-1.76')

Lab Sample ID: 240-87591-22

Date Collected: 10/31/17 11:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303127	11/13/17 11:54	CSC	TAL CAN

Client Sample ID: ED-00.60-SD02-(1.76-2.22')

Lab Sample ID: 240-87591-23

Date Collected: 10/31/17 11:41

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.60-SD02-(1.76-2.22')

Lab Sample ID: 240-87591-23

Date Collected: 10/31/17 11:41

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		50	303127	11/13/17 12:53	CSC	TAL CAN

Client Sample ID: ED-00.60-SD02-(2.22-2.39')

Lab Sample ID: 240-87591-24

Date Collected: 10/31/17 11:42

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.60-SD02-(2.22-2.39')

Lab Sample ID: 240-87591-24

Date Collected: 10/31/17 11:42

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		20	303127	11/13/17 13:12	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.60-SD02-(2.39-2.63')

Lab Sample ID: 240-87591-25

Date Collected: 10/31/17 11:43

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.60-SD02-(2.39-2.63')

Lab Sample ID: 240-87591-25

Date Collected: 10/31/17 11:43

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303127	11/13/17 13:33	CSC	TAL CAN

Client Sample ID: ED-00.60-SD02-(2.63-3.30')

Lab Sample ID: 240-87591-26

Date Collected: 10/31/17 11:44

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.60-SD02-(2.63-3.30')

Lab Sample ID: 240-87591-26

Date Collected: 10/31/17 11:44

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303127	11/13/17 13:54	CSC	TAL CAN

Client Sample ID: ED-00.72-SD03-(0-2.06')

Lab Sample ID: 240-87591-27

Date Collected: 10/31/17 13:15

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.72-SD03-(0-2.06')

Lab Sample ID: 240-87591-27

Date Collected: 10/31/17 13:15

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303127	11/13/17 14:13	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SD03-(2.06-2.40')

Lab Sample ID: 240-87591-28

Date Collected: 10/31/17 13:25

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.72-SD03-(2.06-2.40')

Lab Sample ID: 240-87591-28

Date Collected: 10/31/17 13:25

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303127	11/13/17 14:33	CSC	TAL CAN

Client Sample ID: ED-00.72-SD03-(2.40-3.50')

Lab Sample ID: 240-87591-29

Date Collected: 10/31/17 13:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.72-SD03-(2.40-3.50')

Lab Sample ID: 240-87591-29

Date Collected: 10/31/17 13:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303127	11/13/17 14:52	CSC	TAL CAN

Client Sample ID: ED-00.72-SD03-(3.50-3.84')

Lab Sample ID: 240-87591-30

Date Collected: 10/31/17 13:35

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.72-SD03-(3.50-3.84')

Lab Sample ID: 240-87591-30

Date Collected: 10/31/17 13:35

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303127	11/13/17 15:13	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SD03-(3.84-4.05')

Lab Sample ID: 240-87591-31

Date Collected: 10/31/17 13:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.72-SD03-(3.84-4.05')

Lab Sample ID: 240-87591-31

Date Collected: 10/31/17 13:40

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303127	11/13/17 16:32	CSC	TAL CAN

Client Sample ID: ED-00.72-SD03-(4.05-4.30')

Lab Sample ID: 240-87591-32

Date Collected: 10/31/17 13:45

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.72-SD03-(4.05-4.30')

Lab Sample ID: 240-87591-32

Date Collected: 10/31/17 13:45

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303127	11/13/17 16:52	CSC	TAL CAN

Client Sample ID: ED-00.72-SD03-(2.40-3.50)-FD

Lab Sample ID: 240-87591-33

Date Collected: 10/31/17 13:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.72-SD03-(2.40-3.50)-FD

Lab Sample ID: 240-87591-33

Date Collected: 10/31/17 13:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303127	11/13/17 17:12	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.82-SD02-(0-0.39')

Lab Sample ID: 240-87591-34

Date Collected: 10/31/17 10:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.82-SD02-(0-0.39')

Lab Sample ID: 240-87591-34

Date Collected: 10/31/17 10:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 11:14	LSH	TAL CAN

Client Sample ID: ED-00.82-SD02-(0.39-0.70')

Lab Sample ID: 240-87591-35

Date Collected: 10/31/17 10:55

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-00.82-SD02-(0.39-0.70')

Lab Sample ID: 240-87591-35

Date Collected: 10/31/17 10:55

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303127	11/13/17 17:32	CSC	TAL CAN

Client Sample ID: ED.01.03-SD02-(0-0.98)

Lab Sample ID: 240-87591-36

Date Collected: 10/30/17 17:05

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED.01.03-SD02-(0-0.98)

Lab Sample ID: 240-87591-36

Date Collected: 10/30/17 17:05

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303127	11/13/17 09:54	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED.01.03-SD02-(0-0.98)-FD

Lab Sample ID: 240-87591-37

Date Collected: 10/30/17 17:05

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED.01.03-SD02-(0-0.98)-FD

Lab Sample ID: 240-87591-37

Date Collected: 10/30/17 17:05

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		2	303440	11/14/17 22:54	CSC	TAL CAN

Client Sample ID: ED-01.03-SD02.-(0.98-1.65')

Lab Sample ID: 240-87591-38

Date Collected: 10/30/17 17:10

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:28	MBR	TAL CAN

Client Sample ID: ED-01.03-SD02.-(0.98-1.65')

Lab Sample ID: 240-87591-38

Date Collected: 10/30/17 17:10

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		50	303127	11/13/17 10:33	CSC	TAL CAN

Client Sample ID: ED-01.03-SD02-(0.98-1.65')-FD

Lab Sample ID: 240-87591-39

Date Collected: 10/30/17 17:10

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-01.03-SD02-(0.98-1.65')-FD

Lab Sample ID: 240-87591-39

Date Collected: 10/30/17 17:10

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		50	303127	11/13/17 10:53	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.03-SD02-(1.65-1.87')

Lab Sample ID: 240-87591-40

Date Collected: 10/30/17 17:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-01.03-SD02-(1.65-1.87')

Lab Sample ID: 240-87591-40

Date Collected: 10/30/17 17:30

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		50	303127	11/13/17 11:13	CSC	TAL CAN

Client Sample ID: ED-01.03-SD02-(1.87-2.25')

Lab Sample ID: 240-87591-41

Date Collected: 10/30/17 17:35

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-01.03-SD02-(1.87-2.25')

Lab Sample ID: 240-87591-41

Date Collected: 10/30/17 17:35

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 69.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303127	11/13/17 11:33	CSC	TAL CAN

Client Sample ID: ED-01.14-SD02-(0-1.05')

Lab Sample ID: 240-87591-42

Date Collected: 11/01/17 09:24

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-01.14-SD02-(0-1.05')

Lab Sample ID: 240-87591-42

Date Collected: 11/01/17 09:24

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 13:22	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.22-SD02-(0-0.17')

Lab Sample ID: 240-87591-43

Date Collected: 11/01/17 10:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-01.22-SD02-(0-0.17')

Lab Sample ID: 240-87591-43

Date Collected: 11/01/17 10:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 13:40	LSH	TAL CAN

Client Sample ID: ED-01.22-SD02-(0.17-0.29')

Lab Sample ID: 240-87591-44

Date Collected: 11/01/17 10:55

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-01.22-SD02-(0.17-0.29')

Lab Sample ID: 240-87591-44

Date Collected: 11/01/17 10:55

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 14:54	LSH	TAL CAN

Client Sample ID: ED-01.37-SD02-(0-0.9')

Lab Sample ID: 240-87591-45

Date Collected: 11/02/17 09:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-01.37-SD02-(0-0.9')

Lab Sample ID: 240-87591-45

Date Collected: 11/02/17 09:50

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 15:12	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.49-SD03-(0-0.70')

Lab Sample ID: 240-87591-46

Date Collected: 10/31/17 10:23

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-01.49-SD03-(0-0.70')

Lab Sample ID: 240-87591-46

Date Collected: 10/31/17 10:23

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303095	11/11/17 09:19	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303127	11/13/17 17:52	CSC	TAL CAN

Client Sample ID: ED-00.82-SOL04-(0-0.13')

Lab Sample ID: 240-87591-47

Date Collected: 10/31/17 16:34

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-00.82-SOL04-(0-0.13')

Lab Sample ID: 240-87591-47

Date Collected: 10/31/17 16:34

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 09:12	SEM	TAL CAN

Client Sample ID: ED-00.82-SOL04-(0.13-0.5)

Lab Sample ID: 240-87591-48

Date Collected: 10/31/17 16:35

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-00.82-SOL04-(0.13-0.5)

Lab Sample ID: 240-87591-48

Date Collected: 10/31/17 16:35

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 09:32	SEM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SL01-(0-0.50')

Lab Sample ID: 240-87591-49

Date Collected: 10/31/17 14:05

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-00.72-SL01-(0-0.50')

Lab Sample ID: 240-87591-49

Date Collected: 10/31/17 14:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 09:51	SEM	TAL CAN

Client Sample ID: ED-00.72-SL01-(0.50-1.0')

Lab Sample ID: 240-87591-50

Date Collected: 10/31/17 14:13

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-00.72-SL01-(0.50-1.0')

Lab Sample ID: 240-87591-50

Date Collected: 10/31/17 14:13

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 10:11	SEM	TAL CAN

Client Sample ID: ED-00.60-SL03-(0-0.89')

Lab Sample ID: 240-87591-51

Date Collected: 10/31/17 13:23

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

Client Sample ID: ED-00.60-SL03-(0-0.89')

Lab Sample ID: 240-87591-51

Date Collected: 10/31/17 13:23

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 16:04	SEM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.60-SL03-(0.89-1.0')

Lab Sample ID: 240-87591-52

Date Collected: 10/31/17 13:29

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

Client Sample ID: ED-00.60-SL03-(0.89-1.0')

Lab Sample ID: 240-87591-52

Date Collected: 10/31/17 13:29

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 10:30	SEM	TAL CAN

Client Sample ID: ED-0060.SL01-(0-0.19')

Lab Sample ID: 240-87591-53

Date Collected: 10/31/17 13:41

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

Client Sample ID: ED-0060.SL01-(0-0.19')

Lab Sample ID: 240-87591-53

Date Collected: 10/31/17 13:41

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 10:50	SEM	TAL CAN

Client Sample ID: ED-0060.SL01-(0.19-1.0')

Lab Sample ID: 240-87591-54

Date Collected: 10/31/17 13:49

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-0060.SL01-(0.19-1.0')

Lab Sample ID: 240-87591-54

Date Collected: 10/31/17 13:49

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 07:42	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.51-SL03-(0-0.5')

Lab Sample ID: 240-87591-55

Date Collected: 10/31/17 12:05

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-00.51-SL03-(0-0.5')

Lab Sample ID: 240-87591-55

Date Collected: 10/31/17 12:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		5	303080	11/11/17 11:10	SEM	TAL CAN

Client Sample ID: ED-00.51-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-56

Date Collected: 10/31/17 12:12

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-00.51-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-56

Date Collected: 10/31/17 12:12

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		10	303080	11/11/17 11:30	SEM	TAL CAN

Client Sample ID: ED-00.51-SL03-(0-0.5')-FD

Lab Sample ID: 240-87591-57

Date Collected: 10/31/17 12:05

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-00.51-SL03-(0-0.5')-FD

Lab Sample ID: 240-87591-57

Date Collected: 10/31/17 12:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		10	303080	11/11/17 11:49	SEM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.51-SL01-(0-0.5')

Lab Sample ID: 240-87591-58

Date Collected: 10/31/17 11:35

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-00.51-SL01-(0-0.5')

Lab Sample ID: 240-87591-58

Date Collected: 10/31/17 11:35

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 12:09	SEM	TAL CAN

Client Sample ID: ED-00.51.SL01-(0.5-1.0')

Lab Sample ID: 240-87591-59

Date Collected: 10/31/17 11:41

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 07:58	MBR	TAL CAN

Client Sample ID: ED-00.51.SL01-(0.5-1.0')

Lab Sample ID: 240-87591-59

Date Collected: 10/31/17 11:41

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 12:29	SEM	TAL CAN

Client Sample ID: ED-00.47-SL04-(0-0.80')

Lab Sample ID: 240-87591-60

Date Collected: 10/31/17 10:46

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

Client Sample ID: ED-00.47-SL04-(0-0.80')

Lab Sample ID: 240-87591-60

Date Collected: 10/31/17 10:46

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 12:48	SEM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.47-SL03-(0-0.77')

Lab Sample ID: 240-87591-61

Date Collected: 10/31/17 10:23

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

Client Sample ID: ED-00.47-SL03-(0-0.77')

Lab Sample ID: 240-87591-61

Date Collected: 10/31/17 10:23

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 13:08	SEM	TAL CAN

Client Sample ID: ED-00.47-SL03-(0-0.77')-FD

Lab Sample ID: 240-87591-62

Date Collected: 10/31/17 10:23

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

Client Sample ID: ED-00.47-SL03-(0-0.77')-FD

Lab Sample ID: 240-87591-62

Date Collected: 10/31/17 10:23

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 13:27	SEM	TAL CAN

Client Sample ID: ED-00.47-SL01-(0-0.5')

Lab Sample ID: 240-87591-63

Date Collected: 10/31/17 10:04

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

Client Sample ID: ED-00.47-SL01-(0-0.5')

Lab Sample ID: 240-87591-63

Date Collected: 10/31/17 10:04

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 13:47	SEM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SL04-(0-0.50')

Lab Sample ID: 240-87591-64

Date Collected: 10/31/17 09:02

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

Client Sample ID: ED-00.39-SL04-(0-0.50')

Lab Sample ID: 240-87591-64

Date Collected: 10/31/17 09:02

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 14:07	SEM	TAL CAN

Client Sample ID: ED-00.39-SL04-(0.50-1.0')

Lab Sample ID: 240-87591-65

Date Collected: 10/31/17 09:06

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

Client Sample ID: ED-00.39-SL04-(0.50-1.0')

Lab Sample ID: 240-87591-65

Date Collected: 10/31/17 09:06

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		1	303080	11/11/17 14:26	SEM	TAL CAN

Client Sample ID: ED-00.39-SL03-(0-0.69')

Lab Sample ID: 240-87591-66

Date Collected: 10/31/17 08:31

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

Client Sample ID: ED-00.39-SL03-(0-0.69')

Lab Sample ID: 240-87591-66

Date Collected: 10/31/17 08:31

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302802	11/09/17 10:58	DVT	TAL CAN
Total/NA	Analysis	8082A		5	303080	11/11/17 14:46	SEM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SL03-(0-0.69')-FD

Lab Sample ID: 240-87591-67

Date Collected: 10/31/17 08:31

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

Client Sample ID: ED-00.39-SL03-(0-0.69')-FD

Lab Sample ID: 240-87591-67

Date Collected: 10/31/17 08:31

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302857	11/09/17 14:18	AMT	TAL CAN
Total/NA	Analysis	8082A		10	303043	11/10/17 16:43	LSH	TAL CAN

Client Sample ID: ED-00.39-SL03-(0.69-0.98')

Lab Sample ID: 240-87591-68

Date Collected: 10/31/17 08:37

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

Client Sample ID: ED-00.39-SL03-(0.69-0.98')

Lab Sample ID: 240-87591-68

Date Collected: 10/31/17 08:37

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302857	11/09/17 14:18	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303043	11/10/17 16:26	LSH	TAL CAN

Client Sample ID: ED-00.39-SL03-(0.98-1.17')

Lab Sample ID: 240-87591-69

Date Collected: 10/31/17 08:40

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

Client Sample ID: ED-00.39-SL03-(0.98-1.17')

Lab Sample ID: 240-87591-69

Date Collected: 10/31/17 08:40

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303305	11/14/17 08:02	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.39-SL03-(1.17-1.5')

Lab Sample ID: 240-87591-70

Date Collected: 10/31/17 08:44

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302543	11/08/17 08:01	MBR	TAL CAN

Client Sample ID: ED-00.39-SL03-(1.17-1.5')

Lab Sample ID: 240-87591-70

Date Collected: 10/31/17 08:44

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302857	11/09/17 14:55	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303043	11/10/17 17:54	LSH	TAL CAN

Client Sample ID: ED-00.39-SL01-(0-0.5')

Lab Sample ID: 240-87591-71

Date Collected: 10/31/17 08:11

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.39-SL01-(0-0.5')

Lab Sample ID: 240-87591-71

Date Collected: 10/31/17 08:11

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302857	11/09/17 14:18	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303043	11/10/17 17:01	LSH	TAL CAN

Client Sample ID: ED-00.39-SL01-(0.5-1.0')

Lab Sample ID: 240-87591-72

Date Collected: 10/31/17 08:17

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.39-SL01-(0.5-1.0')

Lab Sample ID: 240-87591-72

Date Collected: 10/31/17 08:17

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 08:22	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SL04-(0-0.5')

Lab Sample ID: 240-87591-73

Date Collected: 10/30/17 14:54

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.25-SL04-(0-0.5')

Lab Sample ID: 240-87591-73

Date Collected: 10/30/17 14:54

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 07:58	CSC	TAL CAN

Client Sample ID: ED-00.25-SL04-(0.5-1.0')

Lab Sample ID: 240-87591-74

Date Collected: 10/30/17 15:01

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.25-SL04-(0.5-1.0')

Lab Sample ID: 240-87591-74

Date Collected: 10/30/17 15:01

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 08:19	CSC	TAL CAN

Client Sample ID: ED-00.25-SL04-(1.0-1.5")

Lab Sample ID: 240-87591-75

Date Collected: 10/30/17 15:20

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.25-SL04-(1.0-1.5")

Lab Sample ID: 240-87591-75

Date Collected: 10/30/17 15:20

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 08:38	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SL04-(1.5-2.0')

Lab Sample ID: 240-87591-76

Date Collected: 10/30/17 15:27

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.25-SL04-(1.5-2.0')

Lab Sample ID: 240-87591-76

Date Collected: 10/30/17 15:27

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 08:58	CSC	TAL CAN

Client Sample ID: ED-00.25-SL03-(0.0.5')

Lab Sample ID: 240-87591-77

Date Collected: 10/30/17 16:30

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.25-SL03-(0.0.5')

Lab Sample ID: 240-87591-77

Date Collected: 10/30/17 16:30

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 09:18	CSC	TAL CAN

Client Sample ID: ED-00.25-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-78

Date Collected: 10/30/17 16:51

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.25-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-78

Date Collected: 10/30/17 16:51

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 09:38	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SL02-(0-0.5')

Lab Sample ID: 240-87591-79

Date Collected: 10/30/17 16:01

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.25-SL02-(0-0.5')

Lab Sample ID: 240-87591-79

Date Collected: 10/30/17 16:01

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		5	302905	11/10/17 09:57	CSC	TAL CAN

Client Sample ID: ED-00.25-SL02-(0-0.5')-FD

Lab Sample ID: 240-87591-80

Date Collected: 10/30/17 16:01

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.25-SL02-(0-0.5')-FD

Lab Sample ID: 240-87591-80

Date Collected: 10/30/17 16:01

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		5	302905	11/10/17 10:17	CSC	TAL CAN

Client Sample ID: ED-00.25-SL02-(0.5-1.0')

Lab Sample ID: 240-87591-81

Date Collected: 10/30/17 16:09

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.25-SL02-(0.5-1.0')

Lab Sample ID: 240-87591-81

Date Collected: 10/30/17 16:09

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 10:37	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.25-SL02-(1.0-1.5')

Lab Sample ID: 240-87591-82

Date Collected: 10/30/17 16:10

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.25-SL02-(1.0-1.5')

Lab Sample ID: 240-87591-82

Date Collected: 10/30/17 16:10

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		2	302905	11/10/17 14:56	CSC	TAL CAN

Client Sample ID: ED-00.08-SL03-(0-0.5')

Lab Sample ID: 240-87591-83

Date Collected: 10/30/17 12:20

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.08-SL03-(0-0.5')

Lab Sample ID: 240-87591-83

Date Collected: 10/30/17 12:20

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		10	302905	11/10/17 15:16	CSC	TAL CAN

Client Sample ID: ED-00.08-SL03-(0.5-0.97')

Lab Sample ID: 240-87591-84

Date Collected: 10/30/17 12:33

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.08-SL03-(0.5-0.97')

Lab Sample ID: 240-87591-84

Date Collected: 10/30/17 12:33

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		2	302905	11/10/17 11:37	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL03-(0.97-1..47')

Lab Sample ID: 240-87591-85

Date Collected: 10/30/17 12:45

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.08-SL03-(0.97-1..47')

Lab Sample ID: 240-87591-85

Date Collected: 10/30/17 12:45

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		100	302905	11/10/17 11:56	CSC	TAL CAN

Client Sample ID: ED-00.08-SL03-(1.5-2.0')

Lab Sample ID: 240-87591-86

Date Collected: 10/30/17 12:53

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.08-SL03-(1.5-2.0')

Lab Sample ID: 240-87591-86

Date Collected: 10/30/17 12:53

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		100	302905	11/10/17 12:57	CSC	TAL CAN

Client Sample ID: ED-00.08-SL04-(0-0.67)

Lab Sample ID: 240-87591-87

Date Collected: 10/30/17 13:18

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.08-SL04-(0-0.67)

Lab Sample ID: 240-87591-87

Date Collected: 10/30/17 13:18

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 13:17	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL04-(0.67-0.86)

Lab Sample ID: 240-87591-88

Date Collected: 10/30/17 13:27

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.08-SL04-(0.67-0.86)

Lab Sample ID: 240-87591-88

Date Collected: 10/30/17 13:27

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302635	11/08/17 13:17	JMT	TAL CAN
Total/NA	Analysis	8082A		1	302905	11/10/17 13:36	CSC	TAL CAN

Client Sample ID: ED-00.08-SL04-(0.86-1.36)

Lab Sample ID: 240-87591-89

Date Collected: 10/30/17 13:39

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.08-SL04-(0.86-1.36)

Lab Sample ID: 240-87591-89

Date Collected: 10/30/17 13:39

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 08:42	CSC	TAL CAN

Client Sample ID: ED-00.08-SL04-(1.5-2.0')

Lab Sample ID: 240-87591-90

Date Collected: 10/30/17 13:44

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.08-SL04-(1.5-2.0')

Lab Sample ID: 240-87591-90

Date Collected: 10/30/17 13:44

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 09:01	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL01-(0-0.5')

Lab Sample ID: 240-87591-91

Date Collected: 10/30/17 11:07

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.08-SL01-(0-0.5')

Lab Sample ID: 240-87591-91

Date Collected: 10/30/17 11:07

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 14:59	CSC	TAL CAN

Client Sample ID: ED-00.08-SL01-(0.5-1.0')

Lab Sample ID: 240-87591-92

Date Collected: 10/30/17 11:16

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.08-SL01-(0.5-1.0')

Lab Sample ID: 240-87591-92

Date Collected: 10/30/17 11:16

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 09:21	CSC	TAL CAN

Client Sample ID: ED-00.08-SL01-(1.0-1.86')

Lab Sample ID: 240-87591-93

Date Collected: 10/30/17 11:22

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.08-SL01-(1.0-1.86')

Lab Sample ID: 240-87591-93

Date Collected: 10/30/17 11:22

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 09:41	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.08-SL01-(1.86-2.0')

Lab Sample ID: 240-87591-94

Date Collected: 10/30/17 11:34

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.08-SL01-(1.86-2.0')

Lab Sample ID: 240-87591-94

Date Collected: 10/30/17 11:34

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 10:02	CSC	TAL CAN

Client Sample ID: ED-01.37-SL03-(0-0.27')

Lab Sample ID: 240-87591-95

Date Collected: 11/02/17 09:25

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.37-SL03-(0-0.27')

Lab Sample ID: 240-87591-95

Date Collected: 11/02/17 09:25

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 10:22	CSC	TAL CAN

Client Sample ID: ED-01.37-SL03-(0.27-0.92')

Lab Sample ID: 240-87591-96

Date Collected: 11/02/17 09:26

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.37-SL03-(0.27-0.92')

Lab Sample ID: 240-87591-96

Date Collected: 11/02/17 09:26

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 10:41	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.37-SL03-(0.92-1.07')

Lab Sample ID: 240-87591-97

Date Collected: 11/02/17 09:28

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.37-SL03-(0.92-1.07')

Lab Sample ID: 240-87591-97

Date Collected: 11/02/17 09:28

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 11:01	CSC	TAL CAN

Client Sample ID: ED-01.37-SL03-(1.07-2.0')

Lab Sample ID: 240-87591-98

Date Collected: 11/02/17 09:30

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.37-SL03-(1.07-2.0')

Lab Sample ID: 240-87591-98

Date Collected: 11/02/17 09:30

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 11:20	CSC	TAL CAN

Client Sample ID: ED-01.49-SL04-(0-0.5')

Lab Sample ID: 240-87591-99

Date Collected: 11/01/17 14:10

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.49-SL04-(0-0.5')

Lab Sample ID: 240-87591-99

Date Collected: 11/01/17 14:10

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 11:40	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.49-SL04-(0.5-1.0')

Lab Sample ID: 240-87591-100

Date Collected: 11/01/17 14:17

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.49-SL04-(0.5-1.0')

Lab Sample ID: 240-87591-100

Date Collected: 11/01/17 14:17

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 12:00	CSC	TAL CAN

Client Sample ID: ED-01.49-SL04-(1.0-1.81')

Lab Sample ID: 240-87591-101

Date Collected: 11/01/17 14:27

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.49-SL04-(1.0-1.81')

Lab Sample ID: 240-87591-101

Date Collected: 11/01/17 14:27

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 12:20	CSC	TAL CAN

Client Sample ID: ED-01.49-SL04-(1.81-2.0')

Lab Sample ID: 240-87591-102

Date Collected: 11/01/17 14:33

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.49-SL04-(1.81-2.0')

Lab Sample ID: 240-87591-102

Date Collected: 11/01/17 14:33

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 12:39	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SL02-(0-0.5)

Lab Sample ID: 240-87591-103

Date Collected: 10/31/17 14:50

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.72-SL02-(0-0.5)

Lab Sample ID: 240-87591-103

Date Collected: 10/31/17 14:50

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		10	303305	11/14/17 12:58	CSC	TAL CAN

Client Sample ID: ED-00.72-SL02-(0.5-1.0')

Lab Sample ID: 240-87591-104

Date Collected: 10/31/17 14:57

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.72-SL02-(0.5-1.0')

Lab Sample ID: 240-87591-104

Date Collected: 10/31/17 14:57

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 72.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 11:37	CSC	TAL CAN

Client Sample ID: ED-00.72-SL02-(1.0-1.5')

Lab Sample ID: 240-87591-105

Date Collected: 10/31/17 15:04

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.72-SL02-(1.0-1.5')

Lab Sample ID: 240-87591-105

Date Collected: 10/31/17 15:04

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		2	303503	11/15/17 07:49	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.24-SL01-(0-0.87')

Lab Sample ID: 240-87591-106

Date Collected: 11/01/17 11:26

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.24-SL01-(0-0.87')

Lab Sample ID: 240-87591-106

Date Collected: 11/01/17 11:26

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		10	303503	11/15/17 08:08	CSC	TAL CAN

Client Sample ID: ED-01.24-SL01-(0.87-1.0')

Lab Sample ID: 240-87591-107

Date Collected: 11/01/17 11:44

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.24-SL01-(0.87-1.0')

Lab Sample ID: 240-87591-107

Date Collected: 11/01/17 11:44

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 12:32	CSC	TAL CAN

Client Sample ID: ED-01.14-SL03-(0-0.5')

Lab Sample ID: 240-87591-108

Date Collected: 11/01/17 10:22

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.14-SL03-(0-0.5')

Lab Sample ID: 240-87591-108

Date Collected: 11/01/17 10:22

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 12:51	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.14-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-109

Date Collected: 11/01/17 10:29

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.14-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-109

Date Collected: 11/01/17 10:29

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 13:09	CSC	TAL CAN

Client Sample ID: ED-01.14-SL03-(0.5-1.0')-FD

Lab Sample ID: 240-87591-110

Date Collected: 11/01/17 10:29

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.14-SL03-(0.5-1.0')-FD

Lab Sample ID: 240-87591-110

Date Collected: 11/01/17 10:29

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 13:27	CSC	TAL CAN

Client Sample ID: ED-01.49-SL02-(0-0.5')

Lab Sample ID: 240-87591-111

Date Collected: 11/01/17 13:50

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.49-SL02-(0-0.5')

Lab Sample ID: 240-87591-111

Date Collected: 11/01/17 13:50

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 13:46	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.49-SL02-(0.5-1.0')

Lab Sample ID: 240-87591-112

Date Collected: 11/01/17 13:55

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.49-SL02-(0.5-1.0')

Lab Sample ID: 240-87591-112

Date Collected: 11/01/17 13:55

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 14:04	CSC	TAL CAN

Client Sample ID: ED-01.37-SL01-(0-0.9')

Lab Sample ID: 240-87591-113

Date Collected: 11/02/17 09:11

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.37-SL01-(0-0.9')

Lab Sample ID: 240-87591-113

Date Collected: 11/02/17 09:11

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 14:23	CSC	TAL CAN

Client Sample ID: ED-01.37-SL01-(0-0.9')-FD

Lab Sample ID: 240-87591-114

Date Collected: 11/02/17 09:11

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.37-SL01-(0-0.9')-FD

Lab Sample ID: 240-87591-114

Date Collected: 11/02/17 09:11

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 14:41	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.03-SL03-(0-0.21')

Lab Sample ID: 240-87591-115

Date Collected: 10/31/17 17:05

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.03-SL03-(0-0.21')

Lab Sample ID: 240-87591-115

Date Collected: 10/31/17 17:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 14:59	CSC	TAL CAN

Client Sample ID: ED-01.03-SL03-(0.21-1.0')

Lab Sample ID: 240-87591-116

Date Collected: 10/31/17 17:13

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.03-SL03-(0.21-1.0')

Lab Sample ID: 240-87591-116

Date Collected: 10/31/17 17:13

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 15:18	CSC	TAL CAN

Client Sample ID: ED-00.82-SL03-(0-0.5')

Lab Sample ID: 240-87591-117

Date Collected: 10/31/17 16:11

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.82-SL03-(0-0.5')

Lab Sample ID: 240-87591-117

Date Collected: 10/31/17 16:11

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 15:36	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.82-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-118

Date Collected: 10/31/17 16:15

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.82-SL03-(0.5-1.0')

Lab Sample ID: 240-87591-118

Date Collected: 10/31/17 16:15

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 64.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 15:54	CSC	TAL CAN

Client Sample ID: ED-00.72-SL04-(0-0.11')

Lab Sample ID: 240-87591-119

Date Collected: 10/31/17 15:39

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.72-SL04-(0-0.11')

Lab Sample ID: 240-87591-119

Date Collected: 10/31/17 15:39

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 16:13	CSC	TAL CAN

Client Sample ID: ED-00.72-SL04-(0.11-0.47')

Lab Sample ID: 240-87591-120

Date Collected: 10/31/17 15:40

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.72-SL04-(0.11-0.47')

Lab Sample ID: 240-87591-120

Date Collected: 10/31/17 15:40

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 16:31	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-00.72-SL04-(0.47-1.0')

Lab Sample ID: 240-87591-121

Date Collected: 10/31/17 15:46

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.72-SL04-(0.47-1.0')

Lab Sample ID: 240-87591-121

Date Collected: 10/31/17 15:46

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 16:49	CSC	TAL CAN

Client Sample ID: ED-01.49-SL01-(0-0.5')

Lab Sample ID: 240-87591-122

Date Collected: 11/01/17 13:40

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.49-SL01-(0-0.5')

Lab Sample ID: 240-87591-122

Date Collected: 11/01/17 13:40

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 18:03	CSC	TAL CAN

Client Sample ID: ED-01.49-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-123

Date Collected: 11/01/17 13:40

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.49-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-123

Date Collected: 11/01/17 13:40

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302955	11/10/17 08:32	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303313	11/14/17 18:21	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.24-SL03-(0-0.5')

Lab Sample ID: 240-87591-124

Date Collected: 11/01/17 12:03

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.24-SL03-(0-0.5')

Lab Sample ID: 240-87591-124

Date Collected: 11/01/17 12:03

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302976	11/10/17 09:13	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303214	11/13/17 18:12	CSC	TAL CAN

Client Sample ID: ED-00.82-SL01-(0-0.22')

Lab Sample ID: 240-87591-125

Date Collected: 10/31/17 16:04

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.82-SL01-(0-0.22')

Lab Sample ID: 240-87591-125

Date Collected: 10/31/17 16:04

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302976	11/10/17 09:13	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303214	11/13/17 18:29	CSC	TAL CAN

Client Sample ID: ED-00.82-SL01-(0.22-0.5')

Lab Sample ID: 240-87591-126

Date Collected: 10/31/17 16:05

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00.82-SL01-(0.22-0.5')

Lab Sample ID: 240-87591-126

Date Collected: 10/31/17 16:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302976	11/10/17 09:13	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303214	11/13/17 19:40	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: ED-01.03-SL01-(0-0.5')

Lab Sample ID: 240-87591-127

Date Collected: 11/01/17 09:32

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.03-SL01-(0-0.5')

Lab Sample ID: 240-87591-127

Date Collected: 11/01/17 09:32

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302976	11/10/17 09:13	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303214	11/13/17 19:58	CSC	TAL CAN

Client Sample ID: ED-01.03-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-128

Date Collected: 11/01/17 09:32

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.03-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-128

Date Collected: 11/01/17 09:32

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 13:18	CSC	TAL CAN

Client Sample ID: ED-01.14-SL01-(0-0.5')

Lab Sample ID: 240-87591-129

Date Collected: 11/01/17 10:01

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-01.14-SL01-(0-0.5')

Lab Sample ID: 240-87591-129

Date Collected: 11/01/17 10:01

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302976	11/10/17 09:13	JMT	TAL CAN
Total/NA	Analysis	8082A		5	303311	11/14/17 16:12	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Client Sample ID: WATER DRUM

Lab Sample ID: 240-87591-130

Date Collected: 11/01/17 16:26

Matrix: Water

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			302648	11/08/17 13:53	DVT	TAL CAN
Total/NA	Analysis	8082A		1	302884	11/09/17 21:37	LSH	TAL CAN

Client Sample ID: SOIL-SED DRUM

Lab Sample ID: 240-87591-131

Date Collected: 11/03/17 12:21

Matrix: Sediment

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: SOIL-SED DRUM

Lab Sample ID: 240-87591-131

Date Collected: 11/03/17 12:21

Matrix: Sediment

Date Received: 11/07/17 17:00

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			303098	11/11/17 10:25	AMT	TAL CAN
Total/NA	Analysis	8082A		1	303135	11/13/17 15:30	LSH	TAL CAN

Client Sample ID: EQUIP RINSATE

Lab Sample ID: 240-87591-132

Date Collected: 11/02/17 16:58

Matrix: Water

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			302648	11/08/17 13:53	DVT	TAL CAN
Total/NA	Analysis	8082A		1	302884	11/09/17 21:55	LSH	TAL CAN

Client Sample ID: ED-00-72-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-133

Date Collected: 10/31/17 14:05

Matrix: Solid

Date Received: 11/07/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	302739	11/09/17 07:46	MBR	TAL CAN

Client Sample ID: ED-00-72-SL01-(0-0.5')-FD

Lab Sample ID: 240-87591-133

Date Collected: 10/31/17 14:05

Matrix: Solid

Date Received: 11/07/17 17:00

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			302991	11/10/17 10:03	JMT	TAL CAN
Total/NA	Analysis	8082A		1	303305	11/14/17 14:39	CSC	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

1-0/1.0 S.O/S.O
1-4/1.4 O.Y/O.4

Chain of Custody Record

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Client Information
Company: Jacqueline Lakberg
Address: 5988 Montclair Blvd
City: Cincinnati
State: OH, Zip: 45150
Phone: 513-209-1966 (Tel)
Email: lakbergj@caepinc.com

Project Name: Arconic, Inc. - Elliott Dtic
Site: [Redacted]

Carrier Tracking Note(s): 4 Coolers

Lab PM: Nestasie, Dominic J
E-Mail: dominic.nestasie@testamerica.com

Phone: 412-584-7176

COC No: [Redacted]
Page: Page 1 of 14
Job #: [Redacted]

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, A=air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	602A - (MD) PCBs 7 Analytes	Analysis Requested	Special Instructions/Note:	Total
											No
ED-00-08-SD02-(0-0.45')	10/30/17	1120	G	S		X	X				1
ED-00-08-SD02-(0.45-0.75')	10/30/17	1125	G	S		X	X				1
ED-00-08-SD02-(0.75-1.4')	10/30/17	1130	C	S		X	X				1
ED-00-08-SD02-(0.75-1.4')-FD	10/30/17	1130	C	S		X	X				1
ED-00-08-SD02-(1.4-2.03')	10/30/17	1140	G	S		X	X				1
ED-00-25-SD01-(0-0.57')	11/1/17	1146	G	S		X	X				1
ED-00-25-SD01-(0.57-3.51')	11/1/17	1201	G	S		X	X				1
ED-00-25-SD01-(3.51-4.3')	11/1/17	1219	C	S		X	X				1
ED-00-25-SD01-(3.51-4.3')-FD	11/1/17	1219	C	S		X	X				1
ED-00-39-SD02-(0-2.20')	11/1/17	1335	C	S		X	X				1
ED-00-39-SD02-(0-2.20')-MS	11/1/17	1335	C	S		X	X				1

Possible Hazard Identification
 Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown
 Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: [Signature]
 Date: 11/6/17 0815
 Company: BSC

Retinquished by: [Signature]
 Date/Time: 11-6-17 14:40
 Company: Quick

Retinquished by: [Signature]
 Date/Time: 11-7-17 1000
 Company: TA

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client
 Disposal By Lab
 Archive For _____ Months

Special Instructions/IOC Requirements

Method of Shipment

TEMP-3.4, 3.3, 3.2, 3.0 OF=0 TWO #13



Chain of Custody Record

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 487-9396 Fax (330) 497-0772

Client Information Client Contact: Laura Campbell Phone: 412-584-7176 E-Mail: dominic.nestiasie@testamericainc.com		Lab PM: Nestiasie, Dominic J E-Mail: dominic.nestiasie@testamericainc.com		Carrier Tracking No(s): 4		COC No: Page 2 of 14 Job #		
Due Date Requested: TAT Requester (days): PO #: WO #: Project #: SSO#		Standard: State, Zip: Phone: Email: Project Name: Site:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Special Instructions/Note: Total Number of Containers		
Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (Invert, Brack, Groundwater, Surface Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - (MOD) PCBs 7 Analytes	Special Instructions/Note:
ED-00 39-SD02-(0-2.20)-MSD	11/1/17	1335	C	S	X	X	X	Sediment sample
ED-00 39-SD02-(2.20-2.41)	11/1/17	1340	G	S	X	X	X	Sediment sample
ED-00 39-SD02-(2.41-3.54)	11/1/17	1345	G	S	X	X	X	Sediment sample
ED-00 39-SD02-(3.54-4.30)	11/1/17	1400	G	S	X	X	X	Sediment sample
ED-00 47-SD02-(0-0.33)	10/30/17	1410	G	S	X	X	X	Sediment sample
ED-00 47-SD02-(0.33-1.46)	10/30/17	1415	G	S	X	X	X	Sediment sample
ED-00 47-SD02-(1.46-1.96)	10/30/17	1420	G	S	X	X	X	Sediment sample
ED-00 47-SD02-(1.96-3.13)	10/30/17	1425	G	S	X	X	X	Sediment sample
ED-00 51-SD02-(0-0.36)	11/1/17	1440	G	S	X	X	X	Sediment sample
ED-00 51-SD02-(0.36-0.68)	11/1/17	1445	G	S	X	X	X	Sediment sample
ED-00 51-SD02-(0.68-1.65)	11/1/17	1450	G	S	X	X	X	Sediment sample
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Requisitioned by: <i>[Signature]</i> Date: 11/6/17 0815 Company:		Requisitioned by: <i>[Signature]</i> Date: 11-6-17 1440 Company:		Requisitioned by: <i>[Signature]</i> Date: 11-7-17 1000 Company:		Date/Time: 11-6-17 14:00 Date/Time: 11/6/17 17:00 Date/Time: 11-7-17 10:00 Company:		
Requisitioned by: <i>[Signature]</i> Date/Time:		Requisitioned by: <i>[Signature]</i> Date/Time:		Requisitioned by: <i>[Signature]</i> Date/Time:		Method of Shipment:		
Custody Seals Intact: A Yes Δ No		Custody Seal No.:						



TestAmerica Canton
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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Client Contact: Jacqueline Lakeberg		Company: Civil & Environmental Consultants Inc		Address: 5988 Montclair Blvd		City: Cincinnati		State: OH		Zip: 45150		Phone: 513-209-1966 (Tel)		Email: jlakeberg@cecinc.com		Project Name: Arconic, Inc. - Elliott Ditch		Site: SSOW#	
Sample Information		Sample: Laura Campbell		Lab PW: Neustasie, Dominic J		Carrier (Tracking No): 4		COC No:		Page: 3 of 14		Job #:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Antichlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AA/AAO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylsulfate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)							
Due Date Requested:		TAT Requested (days):		Standard:		PO #:		WO #:		172-367		Project #:		24019083		SSOW#:		Analysis Requested:		Special Instructions/Note:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=oil, A=air)		Field Filled Sample (Yes or No)		902A - (MOD) PCBs 7 Analytes		Perform MS/MSD (Yes or No)		Total Number of Containers					
ED-00 51-SD02-(1.65-1.75)		11/1/17		1455		G		S		X		X		X		1				Sediment sample	
ED-00 60-SD02-(0.1.76)		10/31/17		1140		C		S		X		X		X		1				Sediment sample	
ED-00 60-SD02-(0.1.76)-MS		10/31/17		1140		C		S		X		X		X		1				Sediment sample	
ED-00 60-SD02-(0.1.76)-MSD		10/31/17		1140		C		S		X		X		X		1				Sediment sample	
ED-00 60-SD02-(1.76-2.22)		10/31/17		1141		G		S		X		X		X		1				Sediment sample	
ED-00 60-SD02-(2.22-2.39)		10/31/17		1142		G		S		X		X		X		1				Sediment sample	
ED-00 60-SD02-(2.39-2.63)		10/31/17		1143		G		S		X		X		X		1				Sediment sample	
ED-00 60-SD02-(2.63-3.30)		10/31/17		1144		G		S		X		X		X		1				Sediment sample	
ED-00 72-SD03-(0.2.06)		10/31/17		1315		G		S		X		X		X		1				Sediment sample	
ED-00 72-SD03-(2.06-2.40)		10/31/17		1325		G		S		X		X		X		1				Sediment sample	
ED-00 72-SD03-(2.40-3.50)		10/31/17		1330		C		S		X		X		X		1				Sediment sample	
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/> Return To Client		<input type="checkbox"/> Archive For		Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Requisitioned By:		Date:		Time:		Method of Shipment:		Disposal By Lab		Archive For		Months							
Requisitioned by: <i>[Signature]</i>		Date/Time: 11/6/17 08:15		Company: Quick		Date/Time: 11-6-17 14:00		Company: Quick		Date/Time: 11-6-17 17:00		Company: Quick		Date/Time: 11-7-17 10:00		Company: Quick		Date/Time: 11-7-17 10:00		Company: Quick	
Requisitioned by: <i>[Signature]</i>		Date/Time: 11-6-17 14:40		Company: Quick		Date/Time: 11-7-17 10:00		Company: Quick		Date/Time: 11-7-17 10:00		Company: Quick		Date/Time: 11-7-17 10:00		Company: Quick		Date/Time: 11-7-17 10:00		Company: Quick	
Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:	



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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Jacqueline Lakeberg Company: Civil & Environmental Consultants Inc Address: 5888 Montclair Blvd City: Cincinnati State, Zip: OH, 45150 Phone: 513-209-1966 (Tel) Email: lakeberg@cecinc.com Project Name: Arconic, Inc - Elliott Dnic Site:	Client Information Sampler: Laura Campbell Phone: 412-584-7176 E-Mail: dominic.nestase@testamericainc.com	Lab. P/W: Nestase, Dominic J. Carrier (acking Note): 4	Page: Page 4 of 14 Job #:
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Sample Identification	Due Date Requested:	TAT Requested (days):	PO #	WO #	Project #	SSOW#	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Dissolved, In-Phase, Aque)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	802A - (MOD) PCBs 7 Analytes	Analysis Requested		Special Instructions/Note:
															802A - (MOD) PCBs 7 Analytes	Perform MS/MSD (Yes or No)	
ED-00 72-SD03-(3.50-3.84)							10/31/17	1335	G	S		X	X				1 Sediment sample
ED-00 72-SD03-(3.84-4.05)							10/31/17	1340	G	S		X	X				1 Sediment sample
ED-00 72-SD03-(4.05-4.30)							10/31/17	1345	G	S		X	X				1 Sediment sample
ED-00 72-SD03-(2.40-3.50)-FD							10/31/17	1330	C	S		X	X				1 Sediment sample
ED-00 82-SD02-(0-0.39)							10/31/17	1050	C	S		X	X				1 Sediment sample
ED-00 82-SD02-(0.0.39)-MS							10/31/17	1050	C	S		X	X				1 Sediment sample
ED-00 82-SD02-(0.0.39)-MSD							10/31/17	1050	C	S		X	X				1 Sediment sample
ED-00 82-SD02-(0.39-0.70)							10/31/17	1055	G	S		X	X				1 Sediment sample
ED-01 03-SD02-(0.0.98)							10/30/17	1705	C	S		X	X				1 Sediment sample
ED-01 03-SD02-(0.0.98)-FD							10/30/17	1705	C	S		X	X				1 Sediment sample
ED-01 03-SD02-(0.98-1.65)							10/30/17	1710	C	S		X	X				1 Sediment sample

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Retinquished By	Signature	Date	Company
Retinquished by	[Signature]	11/6/17	Quica Company
Retinquished by	[Signature]	11-6-17	Quica Company
Retinquished by	[Signature]	11-7-17	Quica Company

Empty Kit Requiring Labeling:

Retinquished By	Signature	Date	Company
Retinquished by	[Signature]	11-6-17	Quica Company

Custody Seals Intact: Yes No

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Company: Jacqueline Lakeberg Client Contact: Laura Campbell Address: 5988 Montclair Blvd, Cincinnati, OH 45150 Phone: 513-209-1968 (Tel) Email: lakebergj@arconic.com Project Name: Arconic, Inc. - Elliott Ditch Site:		Lab PM: Nestasie, Dominic J. E-Mail: dominic.nestasie@testamerica.com	
Due Date Requested: TAT Requested (days): Standard: PO #: WO #: Project #: SSOW#:		Carmer / Recking No(s): Page 5 of 14 Job #	
Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonia H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Sample Identification		Special Instructions/Note:	
ED-01 03-SD02-(0.98-1.65)-FD	Sample Date: 10/30/17	Sample Time: 1710	Matrix: C
ED-01 03-SD02-(1.65-1.87)	Sample Date: 10/30/17	Sample Time: 1730	Matrix: G
ED-01 03-SD02-(1.87-2.25)	Sample Date: 10/30/17	Sample Time: 1735	Matrix: G
ED-01 14-SD02-(0-1.05)	Sample Date: 11/1/17	Sample Time: 0924	Matrix: G
ED-01 22-SD02-(0-0.17)	Sample Date: 11/1/17	Sample Time: 1050	Matrix: G
ED-01 22-SD02-(0.17-0.29)	Sample Date: 11/1/17	Sample Time: 1055	Matrix: G
ED-01 37-SD02-(0-0.9)	Sample Date: 11/2/17	Sample Time: 0950	Matrix: G
ED-01 49-SD03-(0-0.70)	Sample Date: 10/31/17	Sample Time: 1023	Matrix: G
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/ICC Requirements:	
Empty Kit Relinquished by: Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date: 11/6/17 08:15 Date/Time: 11-6-17 14:40 Date/Time: 11-7-17 10:00 Date/Time: 11-7-17 10:00	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Method of Shipment:	



Chain of Custody Record

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Client Information		Client Contact Jacqueline Lakeberg		Company Civil & Environmental Consultants Inc		Address 5988 Montclair Blvd Cincinnati OH 45150		City Cincinnati		State, Zip OH, 45150		Phone 513-209-1966 (Tel)		Email lakeberg@cecinc.com		WO # 172-367		Project # 24019083		Site Arcenic, Inc - Elliott Dlc	
Lab Information		Lab PM Nestase, Dominic J		E-Mail dominic.nestase@testamericainc.com		Due Date Requested		TAT Requested (days)		Standard		Sample Date		Sample Time		Sample Type (C-Comp, G-grab)		Matrix (Water, Solid, Other)		Preservation Code	
Carrier Information		Carrier (tracking info)		4		602A - (MOD) PCBs 7 analytes		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		602A - (MOD) PCBs 7 analytes		Total Number of Containers		Special Instructions/Note:					
Analysis Requested																					
Sample Identification		ED-00 82-SL04-(0-0.13')		10/31/17		1634		G		S		X		1		Soil Sample					
ED-00 82-SL04-(0.13'-0.5')		10/31/17		1635		G		S		S		X		1		Soil Sample					
ED-00 72-SL01-(0-0.50')		10/31/17		1405		G		S		S		X		1		Soil Sample					
ED-00 72-SL01-(0.50'-1.0')		10/31/17		1413		G		S		S		X		1		Soil Sample					
ED-00 60-SL03-(0-0.89')		10/31/17		1323		C		S		S		X		1		Soil Sample					
ED-00 60-SL03-(0-0.89')-MS		10/31/17		1323		C		S		S		X		1		Soil Sample					
ED-00 60-SL03-(0-0.89')-MSD		10/31/17		1323		C		S		S		X		1		Soil Sample					
ED-00 60-SL03-(0.89'-1.0')		10/31/17		1329		G		S		S		X		1		Soil Sample					
ED-00 60-SL01-(0-0.19')		10/31/17		1341		G		S		S		X		1		Soil Sample					
ED-00 60-SL01-(0.19'-1.0')		10/31/17		1349		G		S		S		X		1		Soil Sample					
ED-00 51-SL03-(0-0.5')		10/31/17		1205		C		S		S		X		1		Soil Sample					
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> Radiological									
Deliverable Requested: I, II, III, IV, Other (specify)																					
Empty Kit Reinquished by		Date		Time		Date		Time		Date		Time		Date		Time		Date		Time	
Retrieved by		11/6/17		0815		11/6/17		14:00		11/6/17		1700		11/6/17		1700		11/6/17		1700	
Retrieved by		Laura Campbell		Company		Laura Campbell		Company		Laura Campbell		Company		Laura Campbell		Company		Laura Campbell		Company	
Retrieved by		Cathy Kenny		Company		Cathy Kenny		Company		Cathy Kenny		Company		Cathy Kenny		Company		Cathy Kenny		Company	
Custody Seals Intact:		<input type="checkbox"/> Yes <input type="checkbox"/> No																			
Custody Seal No.:																					

Chain of Custody Record

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North Canton, OH 44720
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Client Information		Client Contact: <u>Jaqueline Lakeberg</u>		Company: <u>Civil & Environmental Consultants Inc</u>		Address: <u>5988 Montclair Blvd</u>		City: <u>Cincinnati</u>		State: <u>Zp</u>		Phone: <u>513-209-1966 (Tel)</u>		Email: <u>llakeberg@cecinc.com</u>		Project Name: <u>Arconic, Inc. - Elliott DfC</u>		Site: <u></u>		Due Date Requested: <u></u>		TAT Requested (days): <u></u>		PO #:		WO #:		Project #:		SSOW#:													
Sampler		Laura Campbell		Lab PM: <u>Nestase, Dominic J</u>		Carrier Tracking (Notes): <u>4</u>		COC No:		Page: <u>7</u> of <u>14</u>		Job #:		Preservation Codes:		M - Hezane		N - None		O - AsHClO ₂		P - Na ₂ O ₄ S		Q - NaHSO ₄		R - Na ₂ SO ₃		S - H ₂ SO ₄		T - TSP Dodecahydrate		U - Acetone		V - MCAA		W - pH 4.5		X - EDTA		L - EDA		Z - other (specify)	
Sample Identification		Sample ID		Sample Date		Sample Time		Sample Type (C-Comp, G-grab)		Matrix (Water, Solid, Other)		Preservation Code		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8082A - (MOD) PCBs 7 Analytes		Total Number of Containers		Special Instructions/Note:																					
ED-00 51-SL03-(0.5-1.0)		10/31/17		1212		G		S				X		X		1		Soil Sample																									
ED-00 51-SL03-(0.0.5)-FD		10/31/17		1205		C		S				X		X		1		Soil Sample																									
ED-00 51-SL01-(0.0.5)		10/31/17		1135		G		S				X		X		1		Soil Sample																									
ED-00 51-SL01-(0.5-1.0)		10/31/17		1141		G		S				X		X		1		Soil Sample																									
ED-00 47-SL04-(0.0.80)		10/31/17		1046		G		S				X		X		1		Soil Sample																									
ED-00 47-SL03-(0.0.77)		10/31/17		1023		C		S				X		X		1		Soil Sample																									
ED-00 47-SL03-(0.0.77)-FD		10/31/17		1023		C		S				X		X		1		Soil Sample																									
ED-00 47-SL01-(0.0.5)		10/31/17		1004		G		S				X		X		1		Soil Sample																									
ED-00 39-SL04-(0.0.50)		10/31/17		0902		G		S				X		X		1		Soil Sample																									
ED-00 39-SL04-(0.50-1.0)		10/31/17		0906		G		S				X		X		1		Soil Sample																									
ED-00 39-SL03-(0.0.69)		10/31/17		0931		C		S				X		X		1		Soil Sample																									
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/> Return To Client		<input type="checkbox"/> Disposal By Lab		Archive For _____ Months																							
Deliverable Requested: I, II, III, IV, Other (specify)		Relinquished by: <u>John Campbell</u>		Date: <u>11/6/17 0815</u>		Company: <u>Quick</u>		Method of Shipment: <u>Express</u>		Date Rec'd: <u>11-6-17</u>		Time: <u>14:00</u>		Company: <u>Quick</u>																													
Relinquished by: <u>Christy Kenney</u>		Date/Time: <u>11-6-17 14:40</u>		Company: <u>Quick</u>		Date Rec'd: <u>11-6-17</u>		Time: <u>17:00</u>		Company: <u>TA</u>																																	
Relinquished by: <u>Christy Kenney</u>		Date/Time: <u>11-7-17</u>		Company: <u>TA</u>		Date Rec'd: <u>11-7-17</u>		Time: <u>10:00</u>		Company: <u>TA</u>																																	
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No.:																																									



Chain of Custody Record

TestAmerica Canton
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Client Information		Company: Civil & Environmental Consultants Inc		Lab PM: Nestase, Dominic J		E-Mail: dominic.nestase@testamericainc.com	
Client Contact: Jacqueline Lakeberg		Address: 5968 Montclair Blvd		City: Cincinnati		State: OH	
Phone: 513-209-1966 (Tel)		City: Cincinnati		State: OH		Zip: 45150	
Email: lakeberg@cecinc.com		Project Name: Arcenic, Inc - Elliott Ditch		Project #: 24019083		SSOW#	
Due Date Requested:		TAT Requested (days):		Standard		Preservation Codes:	
Sample Date		Sample Time		Sample Type (C-Comp, G-grab)		Matrix (Water, Solid, Over Soil, BTX/Toluene, Aro)	
Sample Identification		Sample Date		Sample Time		Sample Type (C-Comp, G-grab)	
ED-00-39-SL03-(0-0.69)-FD		10/31/17		0831		C S	
ED-00-39-SL03-(0.69-0.98)		10/31/17		0837		G S	
ED-00-39-SL03-(0.98-1.17)		10/31/17		0840		G S	
ED-00-39-SL03-(1.17-1.5)		10/31/17		0844		G S	
ED-00-39-SL01-(0-0.5)		10/31/17		0811		C S	
ED-00-39-SL01-(0-0.5)-MS		10/31/17		0811		C S	
ED-00-39-SL01-(0-0.5)-MSD		10/31/17		0811		C S	
ED-00-39-SL01-(0.5-1.0)		10/31/17		0817		G S	
ED-00-25-SL04-(0-0.5)		10/30/17		1454		G S	
ED-00-25-SL04-(0.5-1.0)		10/30/17		1501		G S	
ED-00-25-SL04-(1.0-1.5)		10/30/17		1520		G S	
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological		Date		Company	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by: <i>[Signature]</i>		Date/Time: 11/6/17 0815		Company: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: 11-6-17 1440		Company: <i>[Signature]</i>		Company: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: 11-9-17 1000		Company: <i>[Signature]</i>		Company: <i>[Signature]</i>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Date/Time: 11-6-17 14:00		Company: <i>[Signature]</i>	
Analysis Requested		Field Filtered Sample (Yes or No)		Perform HSM/MSD (Yes or No)		Total Number of Containers	
M - Hexane		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	
N - None		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	
B - NaOH		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	
C - Zn Acetate		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	
D - Nitric Acid		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	
E - NaHSO4		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	
F - MeOH		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	
G - Ancho		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	
H - Ascorbic Acid		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	
I - Ice		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	
J - DI Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	
K - EDTA		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	
L - EDA		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	
Other:		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	
Special Instructions/Note:		8082A - (MOD) PCBs 7 Anchors		8082A - (MOD) PCBs 7 Anchors		Special Instructions/Note:	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Method of Shipment:		Date/Time: 11-6-17 14:00	
Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Date/Time: 11-6-17 1700		Company: <i>[Signature]</i>	
Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Date/Time: 11-9-17 1000		Company: <i>[Signature]</i>	



Chain of Custody Record

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Client Information
Company: Jacqueline Lakeberg
Address: 5988 Montclair Blvd, Cincinnati, OH 45150
Phone: 513-209-1966 (Tel)
Email: lakeberg@cecinc.com
Project Name: Arconic, Inc. - Elliott Ditch
Site: SSOW#

Sampler: Laura Campbell
Lab PM: Nestasio, Dominic J
Phone:
E-Mail: dominic.nestasio@testamericainc.com

Carrier Tracking No.: 4
Page 9 of 14
Job #:

Sample Identification	Sample Date	Sample Time (C=Comp, G=grab)	Sample Type (W=water, S=solid, O=oil)	Matrix (W=water, S=solid, O=oil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	802A - (MOD) PCBs 7 Analytes	Analysis Requested		Special Instructions/Note:
								Due Date Requested:	TAT Requested (days):	
ED-00 25-SL04-(1.5-2.0')	10/30/17	1527	G	S	X	X				1 Soil Sample
ED-00 25-SL03-(0-0.5')	10/30/17	1630	G	S	X	X				1 Soil Sample
ED-00 25-SL03-(0.5-1.0')	10/30/17	1651	G	S	X	X				1 Soil Sample
ED-00 25-SL02-(0-0.5')	10/30/17	1601	C	S	X	X				1 Soil Sample
ED-00 25-SL02-(0.0.5')FD	10/30/17	1601	C	S	X	X				1 Soil Sample
ED-00 25-SL02-(0.5-1.0')	10/30/17	1609	G	S	X	X				1 Soil Sample
ED-00 25-SL02-(1.0-1.5')	10/30/17	1610	G	S	X	X				1 Soil Sample
ED-00 08-SL03-(0-0.5')	10/30/17	1220	G	S	X	X				1 Soil Sample
ED-00 08-SL03-(0.5-0.97')	10/30/17	1233	G	S	X	X				1 Soil Sample
ED-00 08-SL03-(0.97-1.47')	10/30/17	1245	G	S	X	X				1 Soil Sample
ED-00 08-SL03-(1.5-2.0')	10/30/17	1253	G	S	X	X				1 Soil Sample
ED-00 08-SL04-(0-0.67')	10/30/17	1318	G	S	X	X				1 Soil Sample

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological DC
 Deliverable Requested: I, II, III, IV, Other (specify):

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Relinquished by	Date/Time	Company	Method of Shipment
Jacqueline Lakeberg	11/6/17 08:15	Company	
Carl Z. Kowalski	11-6-17 14:40	Company	
	11-6-17 14:00	Company	Quick
	11-7-17 10:00	Company	TA



Chain of Custody Record

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Client Information Company: Jacqueline Lakeberg Client Contact: Laura Campbell Phone: _____ E-Mail: dominic.nestase@testamericacanton.com		Lab PM: Nestase, Dominic J E-Mail: dominic.nestase@testamericacanton.com		Carrier Tracking No(s): 4 Page 10 of 14 Job #		
Due Date Requested: _____ FAT Requested (days): _____ Standard: _____ PO #: _____ WD #: 172-367 Project #: 24019083 SSON#: _____		Analysis Requested Total Number of Containers: _____ Perform MS/MSD (Yes or No): _____ Field Filtered Sample (Yes or No): _____ 9082A - (MDD) PCBs 7 Analytes: _____				
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Overstabil, BT-Tissue, Aque)	Preservation Code	Special Instructions/Note
ED-00-08-SL04-(0.67-0.86)	10/30/17	1327	G	S		Soil Sample
ED-00-08-SL04-(0.86-1.36)	10/30/17	1339	G	S		Soil Sample
ED-00-08-SL04-(1.5-2.0)	10/30/17	1344	G	S		Soil Sample
ED-00-08-SL01-(0-0.5)	10/30/17	1107	C	S		Soil Sample
ED-00-08-SL01-(0-0.5)-MS	10/30/17	1107	C	S		Soil Sample
ED-00-08-SL01-(0-0.5)-MSD	10/30/17	1107	C	S		Soil Sample
ED-00-08-SL01-(0.5-1.0)	10/30/17	1116	G	S		Soil Sample
ED-00-08-SL01-(1.0-1.86)	10/30/17	1122	G	S		Soil Sample
ED-00-08-SL01-(1.86-2.0)	10/30/17	1134	G	S		Soil Sample
ED-01-37-SL02-(0-0.27)	11/21/17	0925	G	S		Soil Sample
ED-01-37-SL02-(0.27-0.92)	11/21/17	0926	G	S		Soil Sample
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological Deliverable Requested I, II, III, IV, Other (specify)						
Empty Kit Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i>		Date: 11/16/17 Date: 11-6-17 Date: 11-6-17 Date: 11-6-17		Date/Time of Shipment: 11-17 14:00 Date/Time: 11-17 17:00 Date/Time: 11-17 10:00		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____				



Chain of Custody Record

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Client Information		Client Contact Jacqueline Lakeberg		Sampler Laura Campbell	LAB PM Nestase, Dominic J	Carrier Tracking Note 4		COC No.	
Company Civil & Environmental Consultants Inc		Address 5988 Montclair Blvd		Phone Cincinnati	E-Mail dominic.nestase@testamericainc.com	Page 11 of 14		Job #	
City Cincinnati		State, Zip OH, 45150		Due Date Requested	Analysis Requested			Preservation Codes:	
Phone 513-209-1966 (Tel)		Email lakersberg@cecinc.com		TAT Requested (days)	Total Number of Containers			M - Hezane N - None O - As/NaO2 P - Na2CO3 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 X - EDTA Y - EDA Z - other (specify)	
Project Name Arconic, Inc. - Elliott Dtic		Project # 24019083		PO #	Field Filtered Sample (Yes or No)			Other:	
Size		SSOW#		WO # 172-367	Perform MS/MSD (Yes or No)				
				Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (Water, Solid, On-surface, etc.)	Preservation Code	
Sample Identification									
ED-01 37-SL02-(0.92-1.07')				11/2/17	0928	G	S	S	
ED-01 37-SL02-(1.07-2.0')				11/2/17	0930	G	S	S	
ED-01 49-SL04-(0.0-0.5')				11/1/17	1410	G	S	S	
ED-01 49-SL04-(0.5-1.0')				11/1/17	1417	G	S	S	
ED-01 49-SL04-(1.0-1.81')				11/1/17	1427	G	S	S	
ED-01 49-SL04-(1.81-2.0')				11/1/17	1433	G	S	S	
ED-00 72-SL02-(0.0-0.5')				10/31/17	1450	G	S	S	
ED-00 72-SL02-(0.5-1.0')				10/31/17	1457	G	S	S	
ED-00 72-SL02-(1.0-1.5')				10/31/17	1504	G	S	S	
ED-01 24-SL01-(0.0-0.87')				11/1/17	1126	G	S	S	
ED-01 24-SL01-(0.87-1.0')				11/1/17	1144	G	S	S	
Possible Hazard Identification				Special Instructions/Note:					
<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown	
<input type="checkbox"/> Radioactive		<input type="checkbox"/> Unknown		<input type="checkbox"/> Unknown		<input type="checkbox"/> Unknown		<input type="checkbox"/> Radio Biological	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by		Date		Time		Method of Shipment	
		Signature: <i>[Signature]</i>		11/6/17 0815		11:00		Quick Company	
		Signature: <i>[Signature]</i>		11-6-17 14:40		11:17-1700		Quick Company	
		Signature: <i>[Signature]</i>		11-7-17 1:00		11:17-1700		Quick Company	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:							



Chain of Custody Record

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Client Information		Client Contact Jacqueline Lakeberg		Company Civil & Environmental Consultants Inc		Address 5986 Montclair Blvd Cincinnati OH, 45150 Phone 513-209-1666 (Tel)		E-Mail jlakeberg@cecinc.com		Project Name Aroclor, Inc. - Elliott Ditch		Site SSOW	
Sample Information		Sample Laura Campbell		Lab PM Nestase, Dominic J		E-Mail dominic.nestase@testamericainc.com		Carrier Tracking Note 4		COC No		Page 12 of 14	
Analysis Requested		Due Date Requested		TAT Requested (days)		Standard		Field Filtered Sample (Yes or No)		Perform MSMSD (Yes or No)		Total Number of Containers	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (Water, Solid, Overstabil, Other)		Preservation Code		Special Instructions/Note	
ED-01 14-SL03-(0-0.5)		11/1/17		1022		G		S		X		1 Soil Sample	
ED-01 14-SL03-(0.5-1.0)		11/1/17		1029		C		S		X		1 Soil Sample	
ED-01 14-SL03-(0.5-1.0)-FD		11/1/17		1029		C		S		X		1 Soil Sample	
ED-01 49-SL02-(0-0.5)		11/1/17		1350		G		S		X		1 Soil Sample	
ED-01 49-SL02-(0.5-1.0)		11/1/17		1355		G		S		X		1 Soil Sample	
ED-01 37-SL01-(0-0.9)		11/2/17		0911		C		S		X		1 Soil Sample	
ED-01 37-SL01-(0-0.9)-FD		11/2/17		0911		C		S		X		1 Soil Sample	
ED-01 03-SL03-(0-0.21)		10/31/17		1705		G		S		X		1 Soil Sample	
ED-01 03-SL03-(0.21-1.0)		10/31/17		1713		G		S		X		1 Soil Sample	
ED-00 82-SL03-(0-0.5)		10/31/17		1611		G		S		X		1 Soil Sample	
ED-00 82-SL03-(0.5-1.0)		10/31/17		1615		G		S		X		1 Soil Sample	
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> Radiological	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished By <i>Laura Campbell</i>		Date 11/6/17 0815		Company Company		Date/Time 11-6-17 14:40		Company Company		Date/Time 11-7-17 1000	
Retransmitted by <i>Christy Kenny</i>		Date/Time 11-6-17 14:40		Company Company		Date/Time 11-7-17 1000		Company Company		Date/Time 11-7-17 1000		Company Company	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Method of Shipment		Return To Client <input type="checkbox"/>		Disposal By Lab <input type="checkbox"/>		Archive For _____ Months		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	



Chain of Custody Record

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Client Information		Client Contact Jacqueline Lakeberg		Lab PM Nestase, Dominic J	Carrier Tracking No(s) 4	DOC No	Page 13 of 14			
Company Civil & Environmental Consultants Inc		Sample Laura Campbell		E-Mail dominic.nestase@testamericainc.com						
Address 5988 Montclair Blvd		Due Date Requested		Analysis Requested		Preservation Codes: M - Hexane N - None O - NaNO2 P - Na2OAS Q - Na2SO4 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 X - EDTA L - EDA Z - other (specify)				
City Cincinnati		TA7 Requested (days)		Standard		Other:				
State, Zip OH, 45150		PO #		Field Filtered Sample (Yes or No)		Total Number of Containers				
Phone 513-209-1966 (Tel)		WO # 172-367		Perform MSMSD (Yes or No)		Special Instructions/Note:				
Email lakeberg@cecinc.com		Project # 24019083		802A - (MOB) PCBs 7 Analyzers						
Project Name Arconic, Inc. - Elliott Dike		SSOW#								
Site										
Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (W-water, B-blood, O-oil, T-tissue, A-Air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MSMSD (Yes or No)	802A - (MOB) PCBs 7 Analyzers	Total Number of Containers	Special Instructions/Note:
ED-00-72-SL04-(0-0-11')	10/31/17	1539	G	S	S	X	X		1	Soil Sample
ED-00-72-SL04-(0-11-0-47')	10/31/17	1540	G	S	S	X	X		1	Soil Sample
ED-00-72-SL04-(0-47-1-0')	10/31/17	1546	G	S	S	X	X		1	Soil Sample
ED-01-49-SL01-(0-0-5')	11/1/17	1340	C	S	S	X	X		1	Soil Sample
ED-01-49-SL01-(0-0-5')-FD	11/1/17	1340	C	S	S	X	X		1	Soil Sample
ED-01-24-SL03-(0-0-5')	11/1/17	1203	G	S	S	X	X		1	Soil Sample
ED-00-82-SL01-(0-0-22')	10/31/17	1604	G	S	S	X	X		1	Soil Sample
ED-00-82-SL01-(0-22-0-5')	10/31/17	1605	G	S	S	X	X		1	Soil Sample
ED-01-03-SL01-(0-0-5')	11/1/17	0932	C	S	S	X	X		1	Soil Sample
ED-01-03-SL01-(0-0-5')-FD	11/1/17	0932	C	S	S	X	X		1	Soil Sample
ED-01-14-SL01-(0-0-5')	11/1/17	1001	C	S	S	X	X		1	Soil Sample
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
Deliverable Requested: I, II, III, IV, Other (specify) _____										
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____										
Relinquished by: <i>APRIL KENNY</i> Date/Time: 11-6-17 14:00 Company: <i>Quick</i>										
Relinquished by: <i>APRIL KENNY</i> Date/Time: 11-6-17 17:00 Company: <i>Quick</i>										
Relinquished by: <i>APRIL KENNY</i> Date/Time: 11-2-17 1:00 Company: <i>TA</i>										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other (specify) _____										



Chain of Custody Record

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-9772

Client Information		Client Contact Jacqueline Lakeberg		Lab PM Nestase, Dominic J	Carrier Tracking Note 4	
Company Civil & Environmental Consultants Inc		Address 5988 Montclair Blvd Cincinnati OH, 45150		E-Mail dominic.nestase@testamericainc.com		COC No. Page 14 of 14 Job #
Due Date Requested		TAT Requested (days)		Analysis Requested		
PO #	WO #	Project #	SSON #	Field Filtered Sample (Yes or No)	Perform MSM/SD (Yes or No)	802A - (MOU) PCBs 7 Analytes
172-367	240-19083					
Project Name Arconic, Inc. - Elliott Dike		Site		Total Number of Containers		
Sample Identification		Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (Water, Solid, Other)	Special Instructions/Note:
ED-01-14-SL01-(0-0.5)-MS		11/1/17	1001	C	S	Soil Sample
ED-01-14-SL01-(0-0.5)-MSD		11/1/17	1001	C	S	Soil Sample
Water Drum		11/1/17	1626	C	W	2
Soil-Sed Drum		11/3/17	1221	C	S	1 Run as sediment
Equip Rinsate		11/2/17	1658	C	W	2
Possible Hazard Identification		Deliverable Requested I, II, III, IV, Other (specify)		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 type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/>		Archive For _____ Months		
Empty Kit Relinquished by		Date		Special Instructions/OC Requirements		
Relinquished by <i>[Signature]</i>		Date/Time	Date/Time	Method of Shipment		
Relinquished by <i>[Signature]</i>		11/6/17 08:15	11/6-17 14:40	Date/Time		
Relinquished by <i>[Signature]</i>		11-6-17	14:40	Date/Time		
Relinquished by <i>[Signature]</i>		11-7-17	1:00	Date/Time		
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Company		
				Company		
				Company		



TestAmerica Canton Sample Receipt Form/Narrative

Login #: 87591

Canton Facility

Client CIVIL & ENV. CONUSE Site Name

Cooler unpacked by:

Cooler Received on 11-7-17 Opened on 11-7-17

POP

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

- 1. Cooler temperature upon receipt IR GUN# IR-8 (CF +0°C) Observed Cooler Temp. IR GUN #36 (CF +0.3°C) Observed Cooler Temp. IR GUN # 627 (CF -1.3°C) Observed Cooler Temp.

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised?

- 3. Shippers' packing slip attached to the cooler(s)?
4. Did custody papers accompany the sample(s)?
5. Were the custody papers relinquished & signed in the appropriate place?
6. Was/were the person(s) who collected the samples clearly identified on the COC?
7. Did all bottles arrive in good condition (Unbroken)?
8. Could all bottle labels be reconciled with the COC?
9. Were correct bottle(s) used for the test(s) indicated?
10. Sufficient quantity received to perform indicated analyses?
11. Are these work share samples?

- If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were all preserved sample(s) at the correct pH upon receipt?
12. Were VOAs on the COC?
13. Were air bubbles >6 mm in any VOA vials? Larger than this.
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #
15. Was a LL Hg or Me Hg trip blank present?

Tests that are not checked for pH by Receiving: VOAs Oil and Grease TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

RECEIVED SAMPLE ED-00.72-SLOT-(0-0.5) FD NOT ON COC. WILL LOG LAST 10/31/17 @ 1405

17. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

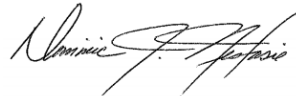
TestAmerica Job ID: 240-91496-1

Client Project/Site: Arconic, Inc. - Elliott Ditch

For:

Civil & Environmental Consultants Inc
2704 Cherokee Farm Way
Suite 101
Knoxville, Tennessee 37920

Attn: Matt Bruck



Authorized for release by:
2/26/2018 1:26:26 PM

Dominic Nestasie, Manager of Project Management
(412)963-7058
dominic.nestasie@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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.

- 1
- 2
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Definitions/Glossary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
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
F2	MS/MSD RPD exceeds control limits

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Job ID: 240-91496-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-91496-1

Receipt:

The samples were received on 2/14/2018 at 9:40 AM; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at time of receipt were 2.1° C and 3.1° C.

Exceptional:

All samples with a depth of greater than 3 foot, were placed on hold per the client request.

PCB's:

Two surrogates are used for PCB analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following LCS (LCS 240-314904/24-A) contained an allowable number of surrogate compounds outside limits. These results have been reported and qualified.

Surrogate recoveries for the following sample ED-00.02-SL01-(2.18-3.43') (240-91496-8) and ED-00.13-SL01-(1.6-2.75') (240-91496-33) was outside the upper control limit. This sample did not contain any target analytes at the reporting limit; therefore, re-extraction and/or re-analysis was not performed.

The following samples ED-00.00-SL01-(0-0.91') (240-91496-1), ED-00.00-SL01-(2.21-3.12') (240-91496-3), (LCS 240-314904/24-A) and (MB 240-314904/23-A), ED-00.05-SL01-(1.4-2.3') (240-91496-12), ED-00.05-SL01-(2.3-3.3') (240-91496-13), ED-00.08-SL03-(2.25-2.75') (240-91496-15), ED-00.08-SL05-(0-0.67') (240-91496-22) and ED-00.08-SL05-(0.67-1.25') (240-91496-23) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

The following samples ED-00.02-SL01-(0.63-1.76') (240-91496-6), ED-00.02-SL01-(2.18-3.43') (240-91496-8) ED-00.05-SL01-(1.4-2.3') (240-91496-12), ED-00.08-SL05-(0-0.67') (240-91496-22), ED-00.08-SL05-(0.67-1.25') (240-91496-23) ED-00.05-SL01-(1.4-2.3') (240-91496-12), ED-00.08-SL05-(0-0.67') (240-91496-22) and ED-00.08-SL05-(0.67-1.25') (240-91496-23). appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration. The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The following samples ED-00.13-SL01-(0-0.67') (240-91496-31), ED-00.13-SL01-(0.67-1.67') (240-91496-32), ED-00.13-SL01-(1.6-2.75') (240-91496-33), ED-00.17-SL01-(0-0.75') (240-91496-35), ED-00.17-SL01-(0-0.75')-DUP (240-91496-36), ED-00.17-SL01-(1.75-2.75') (240-91496-38), ED-00.17-SL01-(0.75-1.75') (240-91496-37), ED-00.55-SL01-(0.5-0.88') (240-91496-41), ED-00.55-SL02-(0-0.42') (240-91496-42), ED-00.55-SL02-(0.5-0.96') (240-91496-43), ED-01.24-SL04-(0-0.84') (240-91496-44), ED-01.24-SL04-(1-1.46') (240-91496-45), ED-01.24-SL05-(0-0.42') (240-91496-46), ED-01.24-SL05-(0-0.42')-DUP (240-91496-47), ED-01.24-SL05-(0.5-1.46') (240-91496-48), ED-01.24-SL06-(0.0-0.84') (240-91496-49), ED-01.24-SL06-(1-1.96') (240-91496-50), (240-91496-B-50-B MS) and (240-91496-B-50-C MSD). required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

The following samples ED-00.13-SL01-(0-0.67') (240-91496-31), ED-00.13-SL01-(0.67-1.67') (240-91496-32), ED-00.17-SL01-(0-0.75') (240-91496-35), ED-00.17-SL01-(0-0.75')-DUP (240-91496-36), ED-00.17-SL01-(1.75-2.75') (240-91496-38) ED-00.17-SL01-(0.75-1.75') (240-91496-37), ED-01.24-SL05-(0-0.42') (240-91496-46), ED-01.24-SL05-(0-0.42')-DUP (240-91496-47), ED-01.24-SL05-(0.5-1.46') (240-91496-48), ED-01.24-SL06-(0.0-0.84') (240-91496-49) and ED-01.24-SL06-(1-1.96') (240-91496-50) appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration. The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 240-314925 and analytical batch 240-315208 was outside control limits. Sample matrix interference is suspected.

Case Narrative

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Job ID: 240-91496-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

The Decachlorobiphenyl surrogate in the continuing calibration verification (CCV) failed criteria. The Aroclors in the CCV's passed criteria and all the samples passed surrogate. After careful evaluation the data is reported. ED-00.13-SL01-(0-0.67') (240-91496-31), ED-00.55-SL02-(0.5-0.96') (240-91496-43), ED-01.24-SL04-(0-0.84') (240-91496-44), ED-01.24-SL04-(1-1.46') (240-91496-45), ED-01.24-SL05-(0-0.42') (240-91496-46), ED-01.24-SL05-(0-0.42')-DUP (240-91496-47), ED-01.24-SL05-(0.5-1.46') (240-91496-48), ED-01.24-SL06-(0.0-0.84') (240-91496-49), ED-01.24-SL06-(1-1.96') (240-91496-50), (240-91496-B-50-B MS) and (240-91496-B-50-C MSD)

The following samples ED-00.00-SL01-(0.91-2.21') (240-91496-2[MS]) and ED-00.00-SL01-(0.91-2.21') (240-91496-2[MSD]) were diluted due to the abundance of target analytes. Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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.

Method Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

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 CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



Sample Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-91496-1	ED-00.00-SL01-(0-0.91')	Solid	02/07/18 09:16	02/14/18 09:40
240-91496-2	ED-00.00-SL01-(0.91-2.21')	Solid	02/07/18 09:16	02/14/18 09:40
240-91496-3	ED-00.00-SL01-(2.21-3.12')	Solid	02/07/18 09:16	02/14/18 09:40
240-91496-5	ED-00.02-SL01-(0-0.63')	Solid	02/07/18 09:38	02/14/18 09:40
240-91496-6	ED-00.02-SL01-(0.63-1.76')	Solid	02/07/18 09:38	02/14/18 09:40
240-91496-7	ED-00.02-SL01-(1.76-2.18')	Solid	02/07/18 09:38	02/14/18 09:40
240-91496-8	ED-00.02-SL01-(2.18-3.43')	Solid	02/07/18 09:38	02/14/18 09:40
240-91496-10	ED-00.05-SL01-(0-0.67')	Solid	02/07/18 10:03	02/14/18 09:40
240-91496-11	ED-00.05-SL01-(0.67-1.2')	Solid	02/07/18 10:03	02/14/18 09:40
240-91496-12	ED-00.05-SL01-(1.4-2.3')	Solid	02/07/18 10:03	02/14/18 09:40
240-91496-13	ED-00.05-SL01-(2.3-3.3')	Solid	02/07/18 10:03	02/14/18 09:40
240-91496-15	ED-00.08-SL03-(2.25-2.75')	Solid	02/07/18 10:11	02/14/18 09:40
240-91496-16	ED-00.08-SL03-(2.75-3.5')	Solid	02/07/18 10:11	02/14/18 09:40
240-91496-22	ED-00.08-SL05-(0-0.67')	Solid	02/07/18 10:26	02/14/18 09:40
240-91496-23	ED-00.08-SL05-(0.67-1.25')	Solid	02/07/18 10:26	02/14/18 09:40
240-91496-24	ED-00.08-SL05-(1.25-2.1')	Solid	02/07/18 10:26	02/14/18 09:40
240-91496-25	ED-00.08-SL05-(2.1-3')	Solid	02/07/18 10:26	02/14/18 09:40
240-91496-31	ED-00.13-SL01-(0-0.67')	Solid	02/07/18 10:33	02/14/18 09:40
240-91496-32	ED-00.13-SL01-(0.67-1.67')	Solid	02/07/18 10:33	02/14/18 09:40
240-91496-33	ED-00.13-SL01-(1.6-2.75')	Solid	02/07/18 10:33	02/14/18 09:40
240-91496-34	ED-00.13-SL01-(2.75-3.08')	Solid	02/07/18 10:33	02/14/18 09:40
240-91496-35	ED-00.17-SL01-(0-0.75')	Solid	02/07/18 10:41	02/14/18 09:40
240-91496-36	ED-00.17-SL01-(0-0.75')-DUP	Solid	02/07/18 10:41	02/14/18 09:40
240-91496-37	ED-00.17-SL01-(0.75-1.75')	Solid	02/07/18 10:41	02/14/18 09:40
240-91496-38	ED-00.17-SL01-(1.75-2.75')	Solid	02/07/18 10:41	02/14/18 09:40
240-91496-39	ED-00.17-SL01-(2.75-3.75')	Solid	02/07/18 10:41	02/14/18 09:40
240-91496-40	ED-00.55-SL01-(0-0.42')	Solid	02/07/18 11:30	02/14/18 09:40
240-91496-41	ED-00.55-SL01-(0.5-0.88')	Solid	02/07/18 11:40	02/14/18 09:40
240-91496-42	ED-00.55-SL02-(0-0.42')	Solid	02/07/18 13:08	02/14/18 09:40
240-91496-43	ED-00.55-SL02-(0.5-0.96')	Solid	02/07/18 13:16	02/14/18 09:40
240-91496-44	ED-01.24-SL04-(0-0.84')	Solid	02/07/18 13:20	02/14/18 09:40
240-91496-45	ED-01.24-SL04-(1-1.46')	Solid	02/07/18 13:30	02/14/18 09:40
240-91496-46	ED-01.24-SL05-(0-0.42')	Solid	02/07/18 13:50	02/14/18 09:40
240-91496-47	ED-01.24-SL05-(0-0.42')-DUP	Solid	02/07/18 13:50	02/14/18 09:40
240-91496-48	ED-01.24-SL05-(0.5-1.46')	Solid	02/07/18 13:56	02/14/18 09:40
240-91496-49	ED-01.24-SL06-(0.0-0.84')	Solid	02/07/18 14:10	02/14/18 09:40
240-91496-50	ED-01.24-SL06-(1-1.96')	Solid	02/07/18 14:18	02/14/18 09:40
240-91496-51	ED-00.8-SL03-(1.25-2.25')	Solid	02/07/18 10:11	02/14/18 09:40

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.00-SL01-(0-0.91')

Lab Sample ID: 240-91496-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	83.3		60.4	29.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	83.3		60.4	37.4	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.00-SL01-(0.91-2.21')

Lab Sample ID: 240-91496-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	3120		300	144	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	3120		300	186	ug/Kg	5	☒	8082A	Total/NA

Client Sample ID: ED-00.00-SL01-(2.21-3.12')

Lab Sample ID: 240-91496-3

No Detections.

Client Sample ID: ED-00.02-SL01-(0-0.63')

Lab Sample ID: 240-91496-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1020		58.4	28.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1020		58.4	36.2	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.02-SL01-(0.63-1.76')

Lab Sample ID: 240-91496-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	70.8		54.4	26.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	70.8		54.4	33.8	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.02-SL01-(1.76-2.18')

Lab Sample ID: 240-91496-7

No Detections.

Client Sample ID: ED-00.02-SL01-(2.18-3.43')

Lab Sample ID: 240-91496-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	44.0	J	55.5	26.6	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	44.0	J	55.5	34.4	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.05-SL01-(0-0.67')

Lab Sample ID: 240-91496-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	3190		322	155	ug/Kg	5	☒	8082A	Total/NA
Aroclor-1260	361		322	142	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	3550		322	200	ug/Kg	5	☒	8082A	Total/NA

Client Sample ID: ED-00.05-SL01-(0.67-1.2')

Lab Sample ID: 240-91496-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	30.8	J	58.6	28.1	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.05-SL01-(1.4-2.3')

Lab Sample ID: 240-91496-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	54.5	J p	58.4	28.1	ug/Kg	1	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.05-SL01-(1.4-2.3') (Continued)

Lab Sample ID: 240-91496-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Polychlorinated biphenyls, Total	54.5	J	58.4	36.2	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.05-SL01-(2.3-3.3')

Lab Sample ID: 240-91496-13

No Detections.

Client Sample ID: ED-00.08-SL03-(2.25-2.75')

Lab Sample ID: 240-91496-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	49.4	J	54.4	26.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	49.4	J	54.4	33.7	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.08-SL03-(2.75-3.5')

Lab Sample ID: 240-91496-16

No Detections.

Client Sample ID: ED-00.08-SL05-(0-0.67')

Lab Sample ID: 240-91496-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	17000		1210	579	ug/Kg	20	☒	8082A	Total/NA
Aroclor-1260	1230		1210	531	ug/Kg	20	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	18200		1210	748	ug/Kg	20	☒	8082A	Total/NA

Client Sample ID: ED-00.08-SL05-(0.67-1.25')

Lab Sample ID: 240-91496-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	5490		587	282	ug/Kg	10	☒	8082A	Total/NA
Aroclor-1260	263	J	587	258	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	5750		587	364	ug/Kg	10	☒	8082A	Total/NA

Client Sample ID: ED-00.08-SL05-(1.25-2.1')

Lab Sample ID: 240-91496-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	39.4	J	55.5	26.6	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	39.4	J	55.5	34.4	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.08-SL05-(2.1-3')

Lab Sample ID: 240-91496-25

No Detections.

Client Sample ID: ED-00.13-SL01-(0-0.67')

Lab Sample ID: 240-91496-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	5560		291	140	ug/Kg	5	☒	8082A	Total/NA
Aroclor-1260	352		291	128	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	5910		291	181	ug/Kg	5	☒	8082A	Total/NA

Client Sample ID: ED-00.13-SL01-(0.67-1.67')

Lab Sample ID: 240-91496-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	300		58.4	28.1	ug/Kg	1	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.13-SL01-(0.67-1.67') (Continued)

Lab Sample ID: 240-91496-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Polychlorinated biphenyls, Total	300		58.4	36.2	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.13-SL01-(1.6-2.75')

Lab Sample ID: 240-91496-33

No Detections.

Client Sample ID: ED-00.13-SL01-(2.75-3.08')

Lab Sample ID: 240-91496-34

No Detections.

Client Sample ID: ED-00.17-SL01-(0-0.75')

Lab Sample ID: 240-91496-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2940		314	151	ug/Kg	5	☒	8082A	Total/NA
Aroclor-1260	427		314	138	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	3370		314	194	ug/Kg	5	☒	8082A	Total/NA

Client Sample ID: ED-00.17-SL01-(0-0.75')-DUP

Lab Sample ID: 240-91496-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2640		310	149	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	2640		310	192	ug/Kg	5	☒	8082A	Total/NA

Client Sample ID: ED-00.17-SL01-(0.75-1.75')

Lab Sample ID: 240-91496-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	13500		562	270	ug/Kg	10	☒	8082A	Total/NA
Aroclor-1260	965		562	247	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	14500		562	348	ug/Kg	10	☒	8082A	Total/NA

Client Sample ID: ED-00.17-SL01-(1.75-2.75')

Lab Sample ID: 240-91496-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	51600		2950	1420	ug/Kg	50	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	51600		2950	1830	ug/Kg	50	☒	8082A	Total/NA

Client Sample ID: ED-00.17-SL01-(2.75-3.75')

Lab Sample ID: 240-91496-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	34.8	J	56.1	26.9	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	34.8	J	56.1	34.8	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.55-SL01-(0-0.42')

Lab Sample ID: 240-91496-40

No Detections.

Client Sample ID: ED-00.55-SL01-(0.5-0.88')

Lab Sample ID: 240-91496-41

No Detections.

Client Sample ID: ED-00.55-SL02-(0-0.42')

Lab Sample ID: 240-91496-42

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.55-SL02-(0-0.42') (Continued)

Lab Sample ID: 240-91496-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	30.7	J	65.7	30.2	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.55-SL02-(0.5-0.96')

Lab Sample ID: 240-91496-43

No Detections.

Client Sample ID: ED-01.24-SL04-(0-0.84')

Lab Sample ID: 240-91496-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	31.0	J	54.8	26.3	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.24-SL04-(1-1.46')

Lab Sample ID: 240-91496-45

No Detections.

Client Sample ID: ED-01.24-SL05-(0-0.42')

Lab Sample ID: 240-91496-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	803		67.0	32.2	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	182		67.0	29.5	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	985		67.0	41.6	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.24-SL05-(0-0.42')-DUP

Lab Sample ID: 240-91496-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	899		61.3	29.4	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	194		61.3	27.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1090		61.3	38.0	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.24-SL05-(0.5-1.46')

Lab Sample ID: 240-91496-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1100		64.5	31.0	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	205		64.5	28.4	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1310		64.5	40.0	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.24-SL06-(0.0-0.84')

Lab Sample ID: 240-91496-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	127	p	64.5	30.9	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	29.9	J	64.5	28.4	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	157		64.5	40.0	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.24-SL06-(1-1.96')

Lab Sample ID: 240-91496-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	135		61.5	29.5	ug/Kg	1	☒	8082A	Total/NA
Aroclor-1260	29.6	J F2	61.5	27.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	165		61.5	38.1	ug/Kg	1	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.8-SL03-(1.25-2.25')

Lab Sample ID: 240-91496-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	4890		287	138	ug/Kg	5	☼	8082A	Total/NA
Aroclor-1260	273	J	287	126	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	5160		287	178	ug/Kg	5	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton



Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.00-SL01-(0-0.91')

Lab Sample ID: 240-91496-1

Date Collected: 02/07/18 09:16

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 85.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.6	U	60.4	26.6	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Aroclor-1221	29.0	U	60.4	29.0	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Aroclor-1232	27.8	U	60.4	27.8	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Aroclor-1242	22.9	U	60.4	22.9	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Aroclor-1248	83.3		60.4	29.0	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Aroclor-1254	27.8	U	60.4	27.8	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Aroclor-1260	26.6	U	60.4	26.6	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Aroclor-1262	37.4	U	60.4	37.4	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Aroclor-1268	27.8	U	60.4	27.8	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1
Polychlorinated biphenyls, Total	83.3		60.4	37.4	ug/Kg	☼	02/15/18 09:44	02/18/18 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	82		10 - 132	02/15/18 09:44	02/18/18 16:59	1
Tetrachloro-m-xylene	84		14 - 128	02/15/18 09:44	02/18/18 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.8		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	14.2		0.1	0.1	%			02/15/18 11:31	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.00-SL01-(0.91-2.21')

Lab Sample ID: 240-91496-2

Date Collected: 02/07/18 09:16

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 83.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	132	U F1	300	132	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Aroclor-1221	144	U	300	144	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Aroclor-1232	138	U	300	138	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Aroclor-1242	114	U	300	114	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Aroclor-1248	3120		300	144	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Aroclor-1254	138	U	300	138	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Aroclor-1260	132	U	300	132	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Aroclor-1262	186	U	300	186	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Aroclor-1268	138	U	300	138	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5
Polychlorinated biphenyls, Total	3120		300	186	ug/Kg	☼	02/15/18 09:44	02/16/18 12:58	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		10 - 132	02/15/18 09:44	02/16/18 12:58	5
Tetrachloro-m-xylene	79		14 - 128	02/15/18 09:44	02/16/18 12:58	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.6		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	16.4		0.1	0.1	%			02/15/18 11:31	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.00-SL01-(2.21-3.12')

Lab Sample ID: 240-91496-3

Date Collected: 02/07/18 09:16

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.2	U	55.0	24.2	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1221	26.4	U	55.0	26.4	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1232	25.3	U	55.0	25.3	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1242	20.9	U	55.0	20.9	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1248	26.4	U	55.0	26.4	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1254	25.3	U	55.0	25.3	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1260	24.2	U	55.0	24.2	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1262	34.1	U	55.0	34.1	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Aroclor-1268	25.3	U	55.0	25.3	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1
Polychlorinated biphenyls, Total	34.1	U	55.0	34.1	ug/Kg	☼	02/15/18 09:44	02/18/18 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		10 - 132	02/15/18 09:44	02/18/18 17:17	1
Tetrachloro-m-xylene	73		14 - 128	02/15/18 09:44	02/18/18 17:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.5		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	10.5		0.1	0.1	%			02/15/18 11:31	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.02-SL01-(0-0.63')

Lab Sample ID: 240-91496-5

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 84.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.7	U	58.4	25.7	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Aroclor-1221	28.0	U	58.4	28.0	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Aroclor-1232	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Aroclor-1242	22.2	U	58.4	22.2	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Aroclor-1248	1020		58.4	28.0	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Aroclor-1254	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Aroclor-1260	25.7	U	58.4	25.7	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Aroclor-1262	36.2	U	58.4	36.2	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Aroclor-1268	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1
Polychlorinated biphenyls, Total	1020		58.4	36.2	ug/Kg	☼	02/15/18 09:44	02/18/18 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	132	p	10 - 132	02/15/18 09:44	02/18/18 17:54	1
Tetrachloro-m-xylene	123		14 - 128	02/15/18 09:44	02/18/18 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.5		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	15.5		0.1	0.1	%			02/15/18 11:31	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.02-SL01-(0.63-1.76')

Lab Sample ID: 240-91496-6

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.0	U	54.4	24.0	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Aroclor-1221	26.1	U	54.4	26.1	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Aroclor-1232	25.0	U	54.4	25.0	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Aroclor-1242	20.7	U	54.4	20.7	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Aroclor-1248	70.8		54.4	26.1	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Aroclor-1254	25.0	U	54.4	25.0	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Aroclor-1260	24.0	U	54.4	24.0	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Aroclor-1262	33.8	U	54.4	33.8	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Aroclor-1268	25.0	U	54.4	25.0	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1
Polychlorinated biphenyls, Total	70.8		54.4	33.8	ug/Kg	☼	02/15/18 09:44	02/18/18 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	101		10 - 132	02/15/18 09:44	02/18/18 18:12	1
Tetrachloro-m-xylene	90		14 - 128	02/15/18 09:44	02/18/18 18:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.1		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	10.9		0.1	0.1	%			02/15/18 11:31	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.02-SL01-(1.76-2.18')

Lab Sample ID: 240-91496-7

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 90.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.7	U	56.1	24.7	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1221	26.9	U	56.1	26.9	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1232	25.8	U	56.1	25.8	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1242	21.3	U	56.1	21.3	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1248	26.9	U	56.1	26.9	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1254	25.8	U	56.1	25.8	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1260	24.7	U	56.1	24.7	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1262	34.8	U	56.1	34.8	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Aroclor-1268	25.8	U	56.1	25.8	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1
Polychlorinated biphenyls, Total	34.8	U	56.1	34.8	ug/Kg	☼	02/15/18 09:44	02/18/18 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		10 - 132	02/15/18 09:44	02/18/18 18:31	1
Tetrachloro-m-xylene	81		14 - 128	02/15/18 09:44	02/18/18 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.2		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	9.8		0.1	0.1	%			02/15/18 11:31	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.02-SL01-(2.18-3.43')

Lab Sample ID: 240-91496-8

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.4	U	55.5	24.4	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Aroclor-1221	26.6	U	55.5	26.6	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Aroclor-1232	25.5	U	55.5	25.5	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Aroclor-1242	21.1	U	55.5	21.1	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Aroclor-1248	44.0	J	55.5	26.6	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Aroclor-1254	25.5	U	55.5	25.5	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Aroclor-1260	24.4	U	55.5	24.4	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Aroclor-1262	34.4	U	55.5	34.4	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Aroclor-1268	25.5	U	55.5	25.5	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1
Polychlorinated biphenyls, Total	44.0	J	55.5	34.4	ug/Kg	☼	02/15/18 09:44	02/18/18 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	170	X	10 - 132	02/15/18 09:44	02/18/18 18:49	1
Tetrachloro-m-xylene	148	X	14 - 128	02/15/18 09:44	02/18/18 18:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.3		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	10.7		0.1	0.1	%			02/15/18 11:31	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.05-SL01-(0-0.67')

Lab Sample ID: 240-91496-10

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 79.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	142	U	322	142	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Aroclor-1221	155	U	322	155	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Aroclor-1232	148	U	322	148	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Aroclor-1242	123	U	322	123	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Aroclor-1248	3190		322	155	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Aroclor-1254	148	U	322	148	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Aroclor-1260	361		322	142	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Aroclor-1262	200	U	322	200	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Aroclor-1268	148	U	322	148	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Polychlorinated biphenyls, Total	3550		322	200	ug/Kg	☼	02/15/18 09:44	02/18/18 19:26	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	123	p	10 - 132				02/15/18 09:44	02/18/18 19:26	5
<i>Tetrachloro-m-xylene</i>	114		14 - 128				02/15/18 09:44	02/18/18 19:26	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.1		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	20.9		0.1	0.1	%			02/15/18 11:31	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.05-SL01-(0.67-1.2')

Lab Sample ID: 240-91496-11

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 85.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.8	U	58.6	25.8	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Aroclor-1221	28.1	U	58.6	28.1	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Aroclor-1232	27.0	U	58.6	27.0	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Aroclor-1242	22.3	U	58.6	22.3	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Aroclor-1248	30.8	J	58.6	28.1	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Aroclor-1254	27.0	U	58.6	27.0	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Aroclor-1260	25.8	U	58.6	25.8	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Aroclor-1262	36.3	U	58.6	36.3	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Aroclor-1268	27.0	U	58.6	27.0	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1
Polychlorinated biphenyls, Total	36.3	U	58.6	36.3	ug/Kg	☼	02/15/18 10:32	02/18/18 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		10 - 132	02/15/18 10:32	02/18/18 21:32	1
Tetrachloro-m-xylene	91		14 - 128	02/15/18 10:32	02/18/18 21:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.7		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	14.3		0.1	0.1	%			02/15/18 11:31	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.05-SL01-(1.4-2.3')

Lab Sample ID: 240-91496-12

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 86.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.7	U	58.4	25.7	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Aroclor-1221	28.1	U	58.4	28.1	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Aroclor-1232	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Aroclor-1242	22.2	U	58.4	22.2	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Aroclor-1248	54.5	J p	58.4	28.1	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Aroclor-1254	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Aroclor-1260	25.7	U	58.4	25.7	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Aroclor-1262	36.2	U	58.4	36.2	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Aroclor-1268	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1
Polychlorinated biphenyls, Total	54.5	J	58.4	36.2	ug/Kg	☼	02/15/18 10:32	02/18/18 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		10 - 132	02/15/18 10:32	02/18/18 15:15	1
Tetrachloro-m-xylene	62		14 - 128	02/15/18 10:32	02/18/18 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.4		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	13.6		0.1	0.1	%			02/15/18 11:31	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.05-SL01-(2.3-3.3')

Lab Sample ID: 240-91496-13

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	23.6	U	53.7	23.6	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1221	25.8	U	53.7	25.8	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1232	24.7	U	53.7	24.7	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1242	20.4	U	53.7	20.4	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1248	25.8	U	53.7	25.8	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1254	24.7	U	53.7	24.7	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1260	23.6	U	53.7	23.6	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1262	33.3	U	53.7	33.3	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Aroclor-1268	24.7	U	53.7	24.7	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1
Polychlorinated biphenyls, Total	33.3	U	53.7	33.3	ug/Kg	☼	02/15/18 10:32	02/18/18 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	76		10 - 132	02/15/18 10:32	02/18/18 15:32	1
Tetrachloro-m-xylene	77		14 - 128	02/15/18 10:32	02/18/18 15:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.8		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	10.2		0.1	0.1	%			02/15/18 11:31	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.08-SL03-(2.25-2.75')

Lab Sample ID: 240-91496-15

Date Collected: 02/07/18 10:11

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 92.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	23.9	U	54.4	23.9	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Aroclor-1221	26.1	U	54.4	26.1	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Aroclor-1232	25.0	U	54.4	25.0	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Aroclor-1242	20.7	U	54.4	20.7	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Aroclor-1248	49.4	J	54.4	26.1	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Aroclor-1254	25.0	U	54.4	25.0	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Aroclor-1260	23.9	U	54.4	23.9	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Aroclor-1262	33.7	U	54.4	33.7	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Aroclor-1268	25.0	U	54.4	25.0	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1
Polychlorinated biphenyls, Total	49.4	J	54.4	33.7	ug/Kg	☼	02/15/18 10:32	02/18/18 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		10 - 132	02/15/18 10:32	02/18/18 16:06	1
Tetrachloro-m-xylene	72		14 - 128	02/15/18 10:32	02/18/18 16:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.0		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	8.0		0.1	0.1	%			02/15/18 11:31	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.08-SL03-(2.75-3.5')

Lab Sample ID: 240-91496-16

Date Collected: 02/07/18 10:11

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 82.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.6	U	60.5	26.6	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1221	29.0	U	60.5	29.0	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1232	27.8	U	60.5	27.8	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1242	23.0	U	60.5	23.0	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1248	29.0	U	60.5	29.0	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1254	27.8	U	60.5	27.8	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1260	26.6	U	60.5	26.6	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1262	37.5	U	60.5	37.5	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Aroclor-1268	27.8	U	60.5	27.8	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1
Polychlorinated biphenyls, Total	37.5	U	60.5	37.5	ug/Kg	☼	02/15/18 10:32	02/18/18 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		10 - 132	02/15/18 10:32	02/18/18 16:23	1
Tetrachloro-m-xylene	84		14 - 128	02/15/18 10:32	02/18/18 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.4		0.1	0.1	%			02/15/18 11:31	1
Percent Moisture	17.6		0.1	0.1	%			02/15/18 11:31	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.08-SL05-(0-0.67')

Lab Sample ID: 240-91496-22

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 80.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	531	U	1210	531	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
Aroclor-1221	579	U	1210	579	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
Aroclor-1232	555	U	1210	555	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
Aroclor-1242	459	U	1210	459	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
Aroclor-1248	17000		1210	579	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
Aroclor-1254	555	U	1210	555	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
Aroclor-1260	1230		1210	531	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
Aroclor-1262	748	U	1210	748	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
Aroclor-1268	555	U	1210	555	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20
Polychlorinated biphenyls, Total	18200		1210	748	ug/Kg	☼	02/15/18 10:32	02/18/18 18:06	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92		10 - 132	02/15/18 10:32	02/18/18 18:06	20
Tetrachloro-m-xylene	112		14 - 128	02/15/18 10:32	02/18/18 18:06	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.4		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	19.6		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.08-SL05-(0.67-1.25')

Lab Sample ID: 240-91496-23

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 87.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	258	U	587	258	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
Aroclor-1221	282	U	587	282	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
Aroclor-1232	270	U	587	270	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
Aroclor-1242	223	U	587	223	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
Aroclor-1248	5490		587	282	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
Aroclor-1254	270	U	587	270	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
Aroclor-1260	263	J	587	258	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
Aroclor-1262	364	U	587	364	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
Aroclor-1268	270	U	587	270	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10
Polychlorinated biphenyls, Total	5750		587	364	ug/Kg	☼	02/15/18 10:32	02/18/18 18:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	95		10 - 132	02/15/18 10:32	02/18/18 18:23	10
<i>Tetrachloro-m-xylene</i>	105		14 - 128	02/15/18 10:32	02/18/18 18:23	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.6		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	12.4		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.08-SL05-(1.25-2.1')

Lab Sample ID: 240-91496-24

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.4	U	55.5	24.4	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Aroclor-1221	26.6	U	55.5	26.6	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Aroclor-1232	25.5	U	55.5	25.5	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Aroclor-1242	21.1	U	55.5	21.1	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Aroclor-1248	39.4	J	55.5	26.6	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Aroclor-1254	25.5	U	55.5	25.5	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Aroclor-1260	24.4	U	55.5	24.4	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Aroclor-1262	34.4	U	55.5	34.4	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Aroclor-1268	25.5	U	55.5	25.5	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1
Polychlorinated biphenyls, Total	39.4	J	55.5	34.4	ug/Kg	☼	02/15/18 10:32	02/18/18 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	82		10 - 132	02/15/18 10:32	02/18/18 18:40	1
<i>Tetrachloro-m-xylene</i>	75		14 - 128	02/15/18 10:32	02/18/18 18:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.5		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	10.5		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.08-SL05-(2.1-3')

Lab Sample ID: 240-91496-25

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 88.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.9	U	58.8	25.9	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1221	28.2	U	58.8	28.2	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1232	27.0	U	58.8	27.0	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1242	22.3	U	58.8	22.3	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1248	28.2	U	58.8	28.2	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1254	27.0	U	58.8	27.0	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1260	25.9	U	58.8	25.9	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1262	36.4	U	58.8	36.4	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Aroclor-1268	27.0	U	58.8	27.0	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1
Polychlorinated biphenyls, Total	36.4	U	58.8	36.4	ug/Kg	☼	02/15/18 10:32	02/18/18 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		10 - 132	02/15/18 10:32	02/18/18 18:57	1
Tetrachloro-m-xylene	69		14 - 128	02/15/18 10:32	02/18/18 18:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.4		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	11.6		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.13-SL01-(0-0.67')

Lab Sample ID: 240-91496-31

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 82.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	128	U	291	128	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
Aroclor-1221	140	U	291	140	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
Aroclor-1232	134	U	291	134	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
Aroclor-1242	111	U	291	111	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
Aroclor-1248	5560		291	140	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
Aroclor-1254	134	U	291	134	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
Aroclor-1260	352		291	128	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
Aroclor-1262	181	U	291	181	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
Aroclor-1268	134	U	291	134	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5
Polychlorinated biphenyls, Total	5910		291	181	ug/Kg	☼	02/15/18 11:13	02/19/18 22:10	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	59		10 - 132	02/15/18 11:13	02/19/18 22:10	5
<i>Tetrachloro-m-xylene</i>	76		14 - 128	02/15/18 11:13	02/19/18 22:10	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.1		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	17.9		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.13-SL01-(0.67-1.67')

Lab Sample ID: 240-91496-32

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.7	U	58.4	25.7	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Aroclor-1221	28.1	U	58.4	28.1	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Aroclor-1232	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Aroclor-1242	22.2	U	58.4	22.2	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Aroclor-1248	300		58.4	28.1	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Aroclor-1254	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Aroclor-1260	25.7	U	58.4	25.7	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Aroclor-1262	36.2	U	58.4	36.2	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Aroclor-1268	26.9	U	58.4	26.9	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1
Polychlorinated biphenyls, Total	300		58.4	36.2	ug/Kg	☼	02/15/18 11:13	02/19/18 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		10 - 132	02/15/18 11:13	02/19/18 14:50	1
Tetrachloro-m-xylene	65		14 - 128	02/15/18 11:13	02/19/18 14:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.2		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	10.8		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.13-SL01-(1.6-2.75')

Lab Sample ID: 240-91496-33

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 87.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.4	U	57.8	25.4	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1221	27.7	U	57.8	27.7	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1232	26.6	U	57.8	26.6	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1242	22.0	U	57.8	22.0	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1248	27.7	U	57.8	27.7	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1254	26.6	U	57.8	26.6	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1260	25.4	U	57.8	25.4	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1262	35.8	U	57.8	35.8	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Aroclor-1268	26.6	U	57.8	26.6	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1
Polychlorinated biphenyls, Total	35.8	U	57.8	35.8	ug/Kg	☼	02/15/18 11:13	02/19/18 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	144	X	10 - 132	02/15/18 11:13	02/19/18 15:08	1
Tetrachloro-m-xylene	135	X	14 - 128	02/15/18 11:13	02/19/18 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.4		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	12.6		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.13-SL01-(2.75-3.08')

Lab Sample ID: 240-91496-34

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 80.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.8	U	63.2	27.8	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1221	30.3	U	63.2	30.3	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1232	29.1	U	63.2	29.1	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1242	24.0	U	63.2	24.0	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1248	30.3	U	63.2	30.3	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1254	29.1	U	63.2	29.1	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1260	27.8	U	63.2	27.8	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1262	39.2	U	63.2	39.2	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Aroclor-1268	29.1	U	63.2	29.1	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1
Polychlorinated biphenyls, Total	39.2	U	63.2	39.2	ug/Kg	☼	02/15/18 11:13	02/19/18 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	58	p	10 - 132	02/15/18 11:13	02/19/18 15:27	1
Tetrachloro-m-xylene	54		14 - 128	02/15/18 11:13	02/19/18 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.2		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	19.8		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.17-SL01-(0-0.75')

Lab Sample ID: 240-91496-35

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 80.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	138	U	314	138	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Aroclor-1221	151	U	314	151	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Aroclor-1232	144	U	314	144	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Aroclor-1242	119	U	314	119	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Aroclor-1248	2940		314	151	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Aroclor-1254	144	U	314	144	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Aroclor-1260	427		314	138	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Aroclor-1262	194	U	314	194	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Aroclor-1268	144	U	314	144	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Polychlorinated biphenyls, Total	3370		314	194	ug/Kg	☼	02/15/18 11:13	02/19/18 15:45	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	95		10 - 132				02/15/18 11:13	02/19/18 15:45	5
<i>Tetrachloro-m-xylene</i>	89		14 - 128				02/15/18 11:13	02/19/18 15:45	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.9		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	19.1		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.17-SL01-(0-0.75')-DUP

Lab Sample ID: 240-91496-36

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 83.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	136	U	310	136	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Aroclor-1221	149	U	310	149	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Aroclor-1232	143	U	310	143	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Aroclor-1242	118	U	310	118	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Aroclor-1248	2640		310	149	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Aroclor-1254	143	U	310	143	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Aroclor-1260	136	U	310	136	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Aroclor-1262	192	U	310	192	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Aroclor-1268	143	U	310	143	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5
Polychlorinated biphenyls, Total	2640		310	192	ug/Kg	☼	02/15/18 11:13	02/20/18 18:57	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	108		10 - 132	02/15/18 11:13	02/20/18 18:57	5
Tetrachloro-m-xylene	105		14 - 128	02/15/18 11:13	02/20/18 18:57	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.3		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	16.7		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.17-SL01-(0.75-1.75')

Lab Sample ID: 240-91496-37

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	247	U	562	247	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
Aroclor-1221	270	U	562	270	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
Aroclor-1232	258	U	562	258	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
Aroclor-1242	213	U	562	213	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
Aroclor-1248	13500		562	270	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
Aroclor-1254	258	U	562	258	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
Aroclor-1260	965		562	247	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
Aroclor-1262	348	U	562	348	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
Aroclor-1268	258	U	562	258	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10
Polychlorinated biphenyls, Total	14500		562	348	ug/Kg	☼	02/15/18 11:13	02/19/18 16:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	80	p	10 - 132	02/15/18 11:13	02/19/18 16:22	10
Tetrachloro-m-xylene	90		14 - 128	02/15/18 11:13	02/19/18 16:22	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.1		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	10.9		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.17-SL01-(1.75-2.75')

Lab Sample ID: 240-91496-38

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 85.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1300	U	2950	1300	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Aroclor-1221	1420	U	2950	1420	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Aroclor-1232	1360	U	2950	1360	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Aroclor-1242	1120	U	2950	1120	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Aroclor-1248	51600		2950	1420	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Aroclor-1254	1360	U	2950	1360	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Aroclor-1260	1300	U	2950	1300	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Aroclor-1262	1830	U	2950	1830	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Aroclor-1268	1360	U	2950	1360	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50
Polychlorinated biphenyls, Total	51600		2950	1830	ug/Kg	☼	02/15/18 11:13	02/20/18 19:13	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	121		10 - 132	02/15/18 11:13	02/20/18 19:13	50
Tetrachloro-m-xylene	121		14 - 128	02/15/18 11:13	02/20/18 19:13	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.0		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	15.0		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.17-SL01-(2.75-3.75')

Lab Sample ID: 240-91496-39

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 90.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.7	U	56.1	24.7	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Aroclor-1221	26.9	U	56.1	26.9	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Aroclor-1232	25.8	U	56.1	25.8	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Aroclor-1242	21.3	U	56.1	21.3	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Aroclor-1248	34.8	J	56.1	26.9	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Aroclor-1254	25.8	U	56.1	25.8	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Aroclor-1260	24.7	U	56.1	24.7	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Aroclor-1262	34.8	U	56.1	34.8	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Aroclor-1268	25.8	U	56.1	25.8	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1
Polychlorinated biphenyls, Total	34.8	J	56.1	34.8	ug/Kg	☼	02/15/18 11:13	02/19/18 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		10 - 132	02/15/18 11:13	02/19/18 16:58	1
Tetrachloro-m-xylene	67		14 - 128	02/15/18 11:13	02/19/18 16:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.6		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	9.4		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.55-SL01-(0-0.42')

Lab Sample ID: 240-91496-40

Date Collected: 02/07/18 11:30

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 88.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.9	U	56.5	24.9	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1221	27.1	U	56.5	27.1	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1232	26.0	U	56.5	26.0	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1242	21.5	U	56.5	21.5	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1248	27.1	U	56.5	27.1	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1254	26.0	U	56.5	26.0	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1260	24.9	U	56.5	24.9	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1262	35.0	U	56.5	35.0	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Aroclor-1268	26.0	U	56.5	26.0	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1
Polychlorinated biphenyls, Total	35.0	U	56.5	35.0	ug/Kg	☼	02/15/18 11:13	02/19/18 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	85		10 - 132	02/15/18 11:13	02/19/18 17:17	1
Tetrachloro-m-xylene	80		14 - 128	02/15/18 11:13	02/19/18 17:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.1		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	11.9		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.55-SL01-(0.5-0.88')

Lab Sample ID: 240-91496-41

Date Collected: 02/07/18 11:40

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 87.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	26.1	U	59.3	26.1	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1221	28.4	U	59.3	28.4	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1232	27.3	U	59.3	27.3	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1242	22.5	U	59.3	22.5	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1248	28.4	U	59.3	28.4	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1254	27.3	U	59.3	27.3	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1260	26.1	U	59.3	26.1	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1262	36.7	U	59.3	36.7	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Aroclor-1268	27.3	U	59.3	27.3	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1
Polychlorinated biphenyls, Total	36.7	U	59.3	36.7	ug/Kg	☼	02/15/18 11:13	02/19/18 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74	p	10 - 132	02/15/18 11:13	02/19/18 17:35	1
Tetrachloro-m-xylene	82		14 - 128	02/15/18 11:13	02/19/18 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.6		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	12.4		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.55-SL02-(0-0.42')

Lab Sample ID: 240-91496-42

Date Collected: 02/07/18 13:08

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 77.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.9	U	65.7	28.9	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Aroclor-1221	31.5	U	65.7	31.5	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Aroclor-1232	30.2	U	65.7	30.2	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Aroclor-1242	25.0	U	65.7	25.0	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Aroclor-1248	31.5	U	65.7	31.5	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Aroclor-1254	30.7	J	65.7	30.2	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Aroclor-1260	28.9	U	65.7	28.9	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Aroclor-1262	40.7	U	65.7	40.7	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Aroclor-1268	30.2	U	65.7	30.2	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1
Polychlorinated biphenyls, Total	40.7	U	65.7	40.7	ug/Kg	☼	02/15/18 11:13	02/19/18 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93	p	10 - 132	02/15/18 11:13	02/19/18 17:53	1
Tetrachloro-m-xylene	89		14 - 128	02/15/18 11:13	02/19/18 17:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.7		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	22.3		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.55-SL02-(0.5-0.96')

Lab Sample ID: 240-91496-43

Date Collected: 02/07/18 13:16

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 78.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.3	U	64.2	28.3	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1221	30.8	U	64.2	30.8	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1232	29.5	U	64.2	29.5	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1242	24.4	U	64.2	24.4	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1248	30.8	U	64.2	30.8	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1254	29.5	U	64.2	29.5	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1260	28.3	U	64.2	28.3	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1262	39.8	U	64.2	39.8	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Aroclor-1268	29.5	U	64.2	29.5	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1
Polychlorinated biphenyls, Total	39.8	U	64.2	39.8	ug/Kg	☼	02/15/18 11:13	02/19/18 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		10 - 132	02/15/18 11:13	02/19/18 19:07	1
Tetrachloro-m-xylene	85		14 - 128	02/15/18 11:13	02/19/18 19:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.9		0.1	0.1	%			02/15/18 11:45	1
Percent Moisture	21.1		0.1	0.1	%			02/15/18 11:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-01.24-SL04-(0-0.84')

Lab Sample ID: 240-91496-44

Date Collected: 02/07/18 13:20

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 91.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	24.1	U	54.8	24.1	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Aroclor-1221	26.3	U	54.8	26.3	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Aroclor-1232	25.2	U	54.8	25.2	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Aroclor-1242	20.8	U	54.8	20.8	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Aroclor-1248	31.0	J	54.8	26.3	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Aroclor-1254	25.2	U	54.8	25.2	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Aroclor-1260	24.1	U	54.8	24.1	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Aroclor-1262	34.0	U	54.8	34.0	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Aroclor-1268	25.2	U	54.8	25.2	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1
Polychlorinated biphenyls, Total	34.0	U	54.8	34.0	ug/Kg	☼	02/15/18 11:13	02/19/18 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		10 - 132	02/15/18 11:13	02/19/18 19:25	1
Tetrachloro-m-xylene	87		14 - 128	02/15/18 11:13	02/19/18 19:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91.0		0.1	0.1	%			02/15/18 11:54	1
Percent Moisture	9.0		0.1	0.1	%			02/15/18 11:54	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-01.24-SL04-(1-1.46')

Lab Sample ID: 240-91496-45

Date Collected: 02/07/18 13:30

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 85.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	25.8	U	58.6	25.8	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1221	28.1	U	58.6	28.1	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1232	27.0	U	58.6	27.0	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1242	22.3	U	58.6	22.3	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1248	28.1	U	58.6	28.1	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1254	27.0	U	58.6	27.0	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1260	25.8	U	58.6	25.8	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1262	36.4	U	58.6	36.4	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Aroclor-1268	27.0	U	58.6	27.0	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1
Polychlorinated biphenyls, Total	36.4	U	58.6	36.4	ug/Kg	☼	02/15/18 11:13	02/19/18 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		10 - 132	02/15/18 11:13	02/19/18 19:44	1
Tetrachloro-m-xylene	80		14 - 128	02/15/18 11:13	02/19/18 19:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.4		0.1	0.1	%			02/15/18 11:54	1
Percent Moisture	14.6		0.1	0.1	%			02/15/18 11:54	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-01.24-SL05-(0-0.42')

Lab Sample ID: 240-91496-46

Date Collected: 02/07/18 13:50

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 75.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	29.5	U	67.0	29.5	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
Aroclor-1221	32.2	U	67.0	32.2	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
Aroclor-1232	30.8	U	67.0	30.8	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
Aroclor-1242	25.5	U	67.0	25.5	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
Aroclor-1248	803		67.0	32.2	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
Aroclor-1254	30.8	U	67.0	30.8	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
Aroclor-1260	182		67.0	29.5	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
Aroclor-1262	41.6	U	67.0	41.6	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
Aroclor-1268	30.8	U	67.0	30.8	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1
Polychlorinated biphenyls, Total	985		67.0	41.6	ug/Kg	☼	02/15/18 11:13	02/19/18 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	72		10 - 132	02/15/18 11:13	02/19/18 20:02	1
Tetrachloro-m-xylene	68		14 - 128	02/15/18 11:13	02/19/18 20:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	75.4		0.1	0.1	%			02/15/18 11:54	1
Percent Moisture	24.6		0.1	0.1	%			02/15/18 11:54	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-01.24-SL05-(0-0.42')-DUP

Lab Sample ID: 240-91496-47

Date Collected: 02/07/18 13:50

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 77.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.0	U	61.3	27.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
Aroclor-1221	29.4	U	61.3	29.4	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
Aroclor-1232	28.2	U	61.3	28.2	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
Aroclor-1242	23.3	U	61.3	23.3	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
Aroclor-1248	899		61.3	29.4	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
Aroclor-1254	28.2	U	61.3	28.2	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
Aroclor-1260	194		61.3	27.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
Aroclor-1262	38.0	U	61.3	38.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
Aroclor-1268	28.2	U	61.3	28.2	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1
Polychlorinated biphenyls, Total	1090		61.3	38.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77	p	10 - 132	02/15/18 11:13	02/19/18 20:20	1
Tetrachloro-m-xylene	80		14 - 128	02/15/18 11:13	02/19/18 20:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.9		0.1	0.1	%			02/15/18 11:54	1
Percent Moisture	22.1		0.1	0.1	%			02/15/18 11:54	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-01.24-SL05-(0.5-1.46')

Lab Sample ID: 240-91496-48

Date Collected: 02/07/18 13:56

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 79.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.4	U	64.5	28.4	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
Aroclor-1221	31.0	U	64.5	31.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
Aroclor-1232	29.7	U	64.5	29.7	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
Aroclor-1242	24.5	U	64.5	24.5	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
Aroclor-1248	1100		64.5	31.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
Aroclor-1254	29.7	U	64.5	29.7	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
Aroclor-1260	205		64.5	28.4	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
Aroclor-1262	40.0	U	64.5	40.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
Aroclor-1268	29.7	U	64.5	29.7	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1
Polychlorinated biphenyls, Total	1310		64.5	40.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	80		10 - 132	02/15/18 11:13	02/19/18 20:39	1
<i>Tetrachloro-m-xylene</i>	82		14 - 128	02/15/18 11:13	02/19/18 20:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.9		0.1	0.1	%			02/15/18 11:54	1
Percent Moisture	20.1		0.1	0.1	%			02/15/18 11:54	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-01.24-SL06-(0.0-0.84')

Lab Sample ID: 240-91496-49

Date Collected: 02/07/18 14:10

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 79.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	28.4	U	64.5	28.4	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
Aroclor-1221	30.9	U	64.5	30.9	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
Aroclor-1232	29.7	U	64.5	29.7	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
Aroclor-1242	24.5	U	64.5	24.5	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
Aroclor-1248	127	p	64.5	30.9	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
Aroclor-1254	29.7	U	64.5	29.7	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
Aroclor-1260	29.9	J	64.5	28.4	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
Aroclor-1262	40.0	U	64.5	40.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
Aroclor-1268	29.7	U	64.5	29.7	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1
Polychlorinated biphenyls, Total	157		64.5	40.0	ug/Kg	☼	02/15/18 11:13	02/19/18 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	85	p	10 - 132	02/15/18 11:13	02/19/18 20:57	1
<i>Tetrachloro-m-xylene</i>	79		14 - 128	02/15/18 11:13	02/19/18 20:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.1		0.1	0.1	%			02/15/18 11:54	1
Percent Moisture	20.9		0.1	0.1	%			02/15/18 11:54	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-01.24-SL06-(1-1.96')

Lab Sample ID: 240-91496-50

Date Collected: 02/07/18 14:18

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 82.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	27.1	U F2	61.5	27.1	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
Aroclor-1221	29.5	U	61.5	29.5	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
Aroclor-1232	28.3	U	61.5	28.3	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
Aroclor-1242	23.4	U	61.5	23.4	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
Aroclor-1248	135		61.5	29.5	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
Aroclor-1254	28.3	U	61.5	28.3	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
Aroclor-1260	29.6	J F2	61.5	27.1	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
Aroclor-1262	38.1	U	61.5	38.1	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
Aroclor-1268	28.3	U	61.5	28.3	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1
Polychlorinated biphenyls, Total	165		61.5	38.1	ug/Kg	☼	02/15/18 11:13	02/19/18 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	94		10 - 132	02/15/18 11:13	02/19/18 21:15	1
Tetrachloro-m-xylene	86		14 - 128	02/15/18 11:13	02/19/18 21:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.0		0.1	0.1	%			02/15/18 11:54	1
Percent Moisture	18.0		0.1	0.1	%			02/15/18 11:54	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.8-SL03-(1.25-2.25')

Lab Sample ID: 240-91496-51

Date Collected: 02/07/18 10:11

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 85.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	126	U	287	126	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
Aroclor-1221	138	U	287	138	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
Aroclor-1232	132	U	287	132	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
Aroclor-1242	109	U	287	109	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
Aroclor-1248	4890		287	138	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
Aroclor-1254	132	U	287	132	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
Aroclor-1260	273	J	287	126	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
Aroclor-1262	178	U	287	178	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
Aroclor-1268	132	U	287	132	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5
Polychlorinated biphenyls, Total	5160		287	178	ug/Kg	☼	02/15/18 09:44	02/18/18 15:46	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83	p	10 - 132	02/15/18 09:44	02/18/18 15:46	5
Tetrachloro-m-xylene	96		14 - 128	02/15/18 09:44	02/18/18 15:46	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.6		0.1	0.1	%			02/15/18 11:54	1
Percent Moisture	14.4		0.1	0.1	%			02/15/18 11:54	1

Surrogate Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

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)	
		DCBP1 (10-132)	TCX1 (14-128)
240-91496-1	ED-00.00-SL01-(0-0.91')	82	84
240-91496-3	ED-00.00-SL01-(2.21-3.12')	89	73
240-91496-5	ED-00.02-SL01-(0-0.63')	132 p	123
240-91496-6	ED-00.02-SL01-(0.63-1.76')	101	90
240-91496-7	ED-00.02-SL01-(1.76-2.18')	93	81
240-91496-8	ED-00.02-SL01-(2.18-3.43')	170 X	148 X
240-91496-10	ED-00.05-SL01-(0-0.67')	123 p	114
240-91496-11	ED-00.05-SL01-(0.67-1.2')	100	91
240-91496-11 MS	ED-00.05-SL01-(0.67-1.2')	85	81
240-91496-11 MSD	ED-00.05-SL01-(0.67-1.2')	83	77
240-91496-12	ED-00.05-SL01-(1.4-2.3')	67	62
240-91496-13	ED-00.05-SL01-(2.3-3.3')	76	77
240-91496-15	ED-00.08-SL03-(2.25-2.75')	77	72
240-91496-16	ED-00.08-SL03-(2.75-3.5')	84	84
240-91496-22	ED-00.08-SL05-(0-0.67')	92	112
240-91496-23	ED-00.08-SL05-(0.67-1.25')	95	105
240-91496-24	ED-00.08-SL05-(1.25-2.1')	82	75
240-91496-25	ED-00.08-SL05-(2.1-3')	79	69
240-91496-31	ED-00.13-SL01-(0-0.67')	59	76
240-91496-32	ED-00.13-SL01-(0.67-1.67')	70	65
240-91496-33	ED-00.13-SL01-(1.6-2.75')	144 X	135 X
240-91496-34	ED-00.13-SL01-(2.75-3.08')	58 p	54
240-91496-35	ED-00.17-SL01-(0-0.75')	95	89
240-91496-36	ED-00.17-SL01-(0-0.75')-DUP	108	105
240-91496-37	ED-00.17-SL01-(0.75-1.75')	80 p	90
240-91496-38	ED-00.17-SL01-(1.75-2.75')	121	121
240-91496-39	ED-00.17-SL01-(2.75-3.75')	75	67
240-91496-40	ED-00.55-SL01-(0-0.42')	85	80
240-91496-41	ED-00.55-SL01-(0.5-0.88')	74 p	82
240-91496-42	ED-00.55-SL02-(0-0.42')	93 p	89
240-91496-43	ED-00.55-SL02-(0.5-0.96')	87	85
240-91496-44	ED-01.24-SL04-(0-0.84')	89	87
240-91496-45	ED-01.24-SL04-(1-1.46')	79	80
240-91496-46	ED-01.24-SL05-(0-0.42')	72	68
240-91496-47	ED-01.24-SL05-(0-0.42')-DUP	77 p	80
240-91496-48	ED-01.24-SL05-(0.5-1.46')	80	82
240-91496-49	ED-01.24-SL06-(0.0-0.84')	85 p	79
240-91496-50	ED-01.24-SL06-(1-1.96')	94	86
240-91496-50 MS	ED-01.24-SL06-(1-1.96')	70 p	80
240-91496-50 MSD	ED-01.24-SL06-(1-1.96')	112	118
240-91496-51	ED-00.8-SL03-(1.25-2.25')	83 p	96
LCS 240-314904/24-A	Lab Control Sample	110	99
LCS 240-314916/24-A	Lab Control Sample	103	91
LCS 240-314925/24-A	Lab Control Sample	64 p	61
MB 240-314904/23-A	Method Blank	91	81
MB 240-314916/23-A	Method Blank	93	88
MB 240-314925/23-A	Method Blank	77	72

Surrogate Legend

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP2	TCX2
		(10-132)	(14-128)
240-91496-2	ED-00.00-SL01-(0.91-2.21')	97	79
240-91496-2 MS	ED-00.00-SL01-(0.91-2.21')	92	73
240-91496-2 MSD	ED-00.00-SL01-(0.91-2.21')	239 X	92
LCS 240-314904/24-A	Lab Control Sample	134 X	122
MB 240-314904/23-A	Method Blank	114	103

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-314904/23-A
Matrix: Solid
Analysis Batch: 315017

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314904

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	22.0	U	50.0	22.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1221	24.0	U	50.0	24.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1232	23.0	U	50.0	23.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1242	19.0	U	50.0	19.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1248	24.0	U	50.0	24.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1254	23.0	U	50.0	23.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1260	22.0	U	50.0	22.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1262	31.0	U	50.0	31.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Aroclor-1268	23.0	U	50.0	23.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		02/15/18 09:44	02/16/18 11:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	114		10 - 132	02/15/18 09:44	02/16/18 11:45	1
Tetrachloro-m-xylene	103		14 - 128	02/15/18 09:44	02/16/18 11:45	1

Lab Sample ID: MB 240-314904/23-A
Matrix: Solid
Analysis Batch: 315196

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314904

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	22.0	U	50.0	22.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1221	24.0	U	50.0	24.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1232	23.0	U	50.0	23.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1242	19.0	U	50.0	19.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1248	24.0	U	50.0	24.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1254	23.0	U	50.0	23.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1260	22.0	U	50.0	22.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1262	31.0	U	50.0	31.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Aroclor-1268	23.0	U	50.0	23.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		02/15/18 09:44	02/18/18 19:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	91		10 - 132	02/15/18 09:44	02/18/18 19:44	1
Tetrachloro-m-xylene	81		14 - 128	02/15/18 09:44	02/18/18 19:44	1

Lab Sample ID: LCS 240-314904/24-A
Matrix: Solid
Analysis Batch: 315017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314904

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Rec. Limits
Aroclor-1016	1000	1088		ug/Kg		109	47 - 120
Aroclor-1260	1000	1152		ug/Kg		115	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	134	X	10 - 132
Tetrachloro-m-xylene	122		14 - 128

TestAmerica Canton

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-314904/24-A

Matrix: Solid
Analysis Batch: 315196

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 314904

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Aroclor-1016	1000	878.4		ug/Kg		88	47 - 120
Aroclor-1260	1000	1092		ug/Kg		109	46 - 120

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	110		10 - 132
Tetrachloro-m-xylene	99		14 - 128

Lab Sample ID: 240-91496-2 MS

Matrix: Solid
Analysis Batch: 315017

Client Sample ID: ED-00.00-SL01-(0.91-2.21')

Prep Type: Total/NA
Prep Batch: 314904

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Aroclor-1016	132	U F1	1140	2233	F1	ug/Kg	☼	195	31 - 120
Aroclor-1260	132	U	1140	970.4		ug/Kg	☼	85	21 - 122

Surrogate	MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	92		10 - 132
Tetrachloro-m-xylene	73		14 - 128

Lab Sample ID: 240-91496-2 MSD

Matrix: Solid
Analysis Batch: 315017

Client Sample ID: ED-00.00-SL01-(0.91-2.21')

Prep Type: Total/NA
Prep Batch: 314904

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	Limits	RPD	Limit
				Result	Qualifier						
Aroclor-1016	132	U F1	1140	2737	F1	ug/Kg	☼	240	31 - 120	20	30
Aroclor-1260	132	U	1140	1088		ug/Kg	☼	95	21 - 122	11	30

Surrogate	MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	239	X	10 - 132
Tetrachloro-m-xylene	92		14 - 128

Lab Sample ID: MB 240-314916/23-A

Matrix: Solid
Analysis Batch: 315194

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 314916

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1016	22.0	U	50.0	22.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1221	24.0	U	50.0	24.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1232	23.0	U	50.0	23.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1242	19.0	U	50.0	19.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1248	24.0	U	50.0	24.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1254	23.0	U	50.0	23.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1260	22.0	U	50.0	22.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1262	31.0	U	50.0	31.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Aroclor-1268	23.0	U	50.0	23.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		02/15/18 10:32	02/18/18 20:06	1

TestAmerica Canton

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-314916/23-A
Matrix: Solid
Analysis Batch: 315194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314916

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	93		10 - 132	02/15/18 10:32	02/18/18 20:06	1
Tetrachloro-m-xylene	88		14 - 128	02/15/18 10:32	02/18/18 20:06	1

Lab Sample ID: LCS 240-314916/24-A
Matrix: Solid
Analysis Batch: 315194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314916

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	873.2		ug/Kg		87	47 - 120
Aroclor-1260	1000	1040		ug/Kg		104	46 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	103		10 - 132
Tetrachloro-m-xylene	91		14 - 128

Lab Sample ID: 240-91496-11 MS
Matrix: Solid
Analysis Batch: 315194

Client Sample ID: ED-00.05-SL01-(0.67-1.2')
Prep Type: Total/NA
Prep Batch: 314916

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	25.8	U	1190	882.5		ug/Kg	☼	74	31 - 120
Aroclor-1260	25.8	U	1190	1041		ug/Kg	☼	88	21 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	85		10 - 132
Tetrachloro-m-xylene	81		14 - 128

Lab Sample ID: 240-91496-11 MSD
Matrix: Solid
Analysis Batch: 315194

Client Sample ID: ED-00.05-SL01-(0.67-1.2')
Prep Type: Total/NA
Prep Batch: 314916

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	25.8	U	1170	861.0		ug/Kg	☼	74	31 - 120	2	30
Aroclor-1260	25.8	U	1170	988.6		ug/Kg	☼	85	21 - 122	6	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	83		10 - 132
Tetrachloro-m-xylene	77		14 - 128

Lab Sample ID: MB 240-314925/23-A
Matrix: Solid
Analysis Batch: 315208

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314925

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1016	22.0	U	50.0	22.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Aroclor-1221	24.0	U	50.0	24.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Aroclor-1232	23.0	U	50.0	23.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1

TestAmerica Canton

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-314925/23-A
Matrix: Solid
Analysis Batch: 315208

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314925

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1242	19.0	U	50.0	19.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Aroclor-1248	24.0	U	50.0	24.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Aroclor-1254	23.0	U	50.0	23.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Aroclor-1260	22.0	U	50.0	22.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Aroclor-1262	31.0	U	50.0	31.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Aroclor-1268	23.0	U	50.0	23.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		02/15/18 11:13	02/19/18 18:12	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	77		10 - 132	02/15/18 11:13	02/19/18 18:12	1
Tetrachloro-m-xylene	72		14 - 128	02/15/18 11:13	02/19/18 18:12	1

Lab Sample ID: LCS 240-314925/24-A
Matrix: Solid
Analysis Batch: 315208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314925

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1260	1000	592.4		ug/Kg		59	46 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	64	p	10 - 132
Tetrachloro-m-xylene	61		14 - 128

Lab Sample ID: 240-91496-50 MS
Matrix: Solid
Analysis Batch: 315208

Client Sample ID: ED-01.24-SL06-(1-1.96')
Prep Type: Total/NA
Prep Batch: 314925

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1260	27.1	U F2	1260	905.4		ug/Kg	☼	72	21 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	70	p	10 - 132
Tetrachloro-m-xylene	80		14 - 128

Lab Sample ID: 240-91496-50 MSD
Matrix: Solid
Analysis Batch: 315208

Client Sample ID: ED-01.24-SL06-(1-1.96')
Prep Type: Total/NA
Prep Batch: 314925

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
										RPD	Limit
Aroclor-1016	27.1	U F2	1240	1412	F2	ug/Kg	☼	113	31 - 120	44	30
Aroclor-1260	27.1	U F2	1240	1497	F2	ug/Kg	☼	120	21 - 122	49	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	112		10 - 132
Tetrachloro-m-xylene	118		14 - 128

TestAmerica Canton

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Method: Moisture - Percent Moisture

Lab Sample ID: 240-91496-2 DU

Matrix: Solid

Analysis Batch: 314935

Client Sample ID: ED-00.00-SL01-(0.91-2.21')

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	Limit
			Result	Qualifier				
Percent Solids	83.6		83.8		%		0.2	20
Percent Moisture	16.4		16.2		%		1	20

Lab Sample ID: 240-91496-11 DU

Matrix: Solid

Analysis Batch: 314935

Client Sample ID: ED-00.05-SL01-(0.67-1.2')

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	Limit
			Result	Qualifier				
Percent Solids	85.7		86.4		%		0.8	20
Percent Moisture	14.3		13.6		%		5	20

Lab Sample ID: 240-91496-35 DU

Matrix: Solid

Analysis Batch: 314935

Client Sample ID: ED-00.17-SL01-(0-0.75')

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	Limit
			Result	Qualifier				
Percent Solids	80.9		80.1		%		1	20
Percent Moisture	19.1		19.9		%		4	20

Lab Sample ID: 240-91496-44 DU

Matrix: Solid

Analysis Batch: 314935

Client Sample ID: ED-01.24-SL04-(0-0.84')

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	Limit
			Result	Qualifier				
Percent Solids	91.0		87.2		%		4	20
Percent Moisture	9.0		12.8	F3	%		35	20

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

GC Semi VOA

Prep Batch: 314904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-1	ED-00.00-SL01-(0-0.91')	Total/NA	Solid	3540C	
240-91496-2	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	3540C	
240-91496-3	ED-00.00-SL01-(2.21-3.12')	Total/NA	Solid	3540C	
240-91496-5	ED-00.02-SL01-(0-0.63')	Total/NA	Solid	3540C	
240-91496-6	ED-00.02-SL01-(0.63-1.76')	Total/NA	Solid	3540C	
240-91496-7	ED-00.02-SL01-(1.76-2.18')	Total/NA	Solid	3540C	
240-91496-8	ED-00.02-SL01-(2.18-3.43')	Total/NA	Solid	3540C	
240-91496-10	ED-00.05-SL01-(0-0.67')	Total/NA	Solid	3540C	
240-91496-51	ED-00.8-SL03-(1.25-2.25')	Total/NA	Solid	3540C	
MB 240-314904/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-314904/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-91496-2 MS	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	3540C	
240-91496-2 MSD	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	3540C	

Prep Batch: 314916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-11	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	3540C	
240-91496-12	ED-00.05-SL01-(1.4-2.3')	Total/NA	Solid	3540C	
240-91496-13	ED-00.05-SL01-(2.3-3.3')	Total/NA	Solid	3540C	
240-91496-15	ED-00.08-SL03-(2.25-2.75')	Total/NA	Solid	3540C	
240-91496-16	ED-00.08-SL03-(2.75-3.5')	Total/NA	Solid	3540C	
240-91496-22	ED-00.08-SL05-(0-0.67')	Total/NA	Solid	3540C	
240-91496-23	ED-00.08-SL05-(0.67-1.25')	Total/NA	Solid	3540C	
240-91496-24	ED-00.08-SL05-(1.25-2.1')	Total/NA	Solid	3540C	
240-91496-25	ED-00.08-SL05-(2.1-3')	Total/NA	Solid	3540C	
MB 240-314916/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-314916/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-91496-11 MS	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	3540C	
240-91496-11 MSD	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	3540C	

Prep Batch: 314925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-31	ED-00.13-SL01-(0-0.67')	Total/NA	Solid	3540C	
240-91496-32	ED-00.13-SL01-(0.67-1.67')	Total/NA	Solid	3540C	
240-91496-33	ED-00.13-SL01-(1.6-2.75')	Total/NA	Solid	3540C	
240-91496-34	ED-00.13-SL01-(2.75-3.08')	Total/NA	Solid	3540C	
240-91496-35	ED-00.17-SL01-(0-0.75')	Total/NA	Solid	3540C	
240-91496-36	ED-00.17-SL01-(0-0.75')-DUP	Total/NA	Solid	3540C	
240-91496-37	ED-00.17-SL01-(0.75-1.75')	Total/NA	Solid	3540C	
240-91496-38	ED-00.17-SL01-(1.75-2.75')	Total/NA	Solid	3540C	
240-91496-39	ED-00.17-SL01-(2.75-3.75')	Total/NA	Solid	3540C	
240-91496-40	ED-00.55-SL01-(0-0.42')	Total/NA	Solid	3540C	
240-91496-41	ED-00.55-SL01-(0.5-0.88')	Total/NA	Solid	3540C	
240-91496-42	ED-00.55-SL02-(0-0.42')	Total/NA	Solid	3540C	
240-91496-43	ED-00.55-SL02-(0.5-0.96')	Total/NA	Solid	3540C	
240-91496-44	ED-01.24-SL04-(0-0.84')	Total/NA	Solid	3540C	
240-91496-45	ED-01.24-SL04-(1-1.46')	Total/NA	Solid	3540C	
240-91496-46	ED-01.24-SL05-(0-0.42')	Total/NA	Solid	3540C	
240-91496-47	ED-01.24-SL05-(0-0.42')-DUP	Total/NA	Solid	3540C	
240-91496-48	ED-01.24-SL05-(0.5-1.46')	Total/NA	Solid	3540C	
240-91496-49	ED-01.24-SL06-(0.0-0.84')	Total/NA	Solid	3540C	

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

GC Semi VOA (Continued)

Prep Batch: 314925 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-50	ED-01.24-SL06-(1-1.96')	Total/NA	Solid	3540C	
MB 240-314925/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-314925/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-91496-50 MS	ED-01.24-SL06-(1-1.96')	Total/NA	Solid	3540C	
240-91496-50 MSD	ED-01.24-SL06-(1-1.96')	Total/NA	Solid	3540C	

Analysis Batch: 315017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-2	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	8082A	314904
MB 240-314904/23-A	Method Blank	Total/NA	Solid	8082A	314904
LCS 240-314904/24-A	Lab Control Sample	Total/NA	Solid	8082A	314904
240-91496-2 MS	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	8082A	314904
240-91496-2 MSD	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	8082A	314904

Analysis Batch: 315194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-11	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	8082A	314916
240-91496-12	ED-00.05-SL01-(1.4-2.3')	Total/NA	Solid	8082A	314916
240-91496-13	ED-00.05-SL01-(2.3-3.3')	Total/NA	Solid	8082A	314916
240-91496-15	ED-00.08-SL03-(2.25-2.75')	Total/NA	Solid	8082A	314916
240-91496-16	ED-00.08-SL03-(2.75-3.5')	Total/NA	Solid	8082A	314916
240-91496-22	ED-00.08-SL05-(0-0.67')	Total/NA	Solid	8082A	314916
240-91496-23	ED-00.08-SL05-(0.67-1.25')	Total/NA	Solid	8082A	314916
240-91496-24	ED-00.08-SL05-(1.25-2.1')	Total/NA	Solid	8082A	314916
240-91496-25	ED-00.08-SL05-(2.1-3')	Total/NA	Solid	8082A	314916
MB 240-314916/23-A	Method Blank	Total/NA	Solid	8082A	314916
LCS 240-314916/24-A	Lab Control Sample	Total/NA	Solid	8082A	314916
240-91496-11 MS	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	8082A	314916
240-91496-11 MSD	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	8082A	314916

Analysis Batch: 315196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-1	ED-00.00-SL01-(0-0.91')	Total/NA	Solid	8082A	314904
240-91496-3	ED-00.00-SL01-(2.21-3.12')	Total/NA	Solid	8082A	314904
240-91496-5	ED-00.02-SL01-(0-0.63')	Total/NA	Solid	8082A	314904
240-91496-6	ED-00.02-SL01-(0.63-1.76')	Total/NA	Solid	8082A	314904
240-91496-7	ED-00.02-SL01-(1.76-2.18')	Total/NA	Solid	8082A	314904
240-91496-8	ED-00.02-SL01-(2.18-3.43')	Total/NA	Solid	8082A	314904
240-91496-10	ED-00.05-SL01-(0-0.67')	Total/NA	Solid	8082A	314904
240-91496-51	ED-00.8-SL03-(1.25-2.25')	Total/NA	Solid	8082A	314904
MB 240-314904/23-A	Method Blank	Total/NA	Solid	8082A	314904
LCS 240-314904/24-A	Lab Control Sample	Total/NA	Solid	8082A	314904

Analysis Batch: 315208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-31	ED-00.13-SL01-(0-0.67')	Total/NA	Solid	8082A	314925
240-91496-32	ED-00.13-SL01-(0.67-1.67')	Total/NA	Solid	8082A	314925
240-91496-33	ED-00.13-SL01-(1.6-2.75')	Total/NA	Solid	8082A	314925
240-91496-34	ED-00.13-SL01-(2.75-3.08')	Total/NA	Solid	8082A	314925
240-91496-35	ED-00.17-SL01-(0-0.75')	Total/NA	Solid	8082A	314925
240-91496-37	ED-00.17-SL01-(0.75-1.75')	Total/NA	Solid	8082A	314925

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

GC Semi VOA (Continued)

Analysis Batch: 315208 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-39	ED-00.17-SL01-(2.75-3.75')	Total/NA	Solid	8082A	314925
240-91496-40	ED-00.55-SL01-(0-0.42')	Total/NA	Solid	8082A	314925
240-91496-41	ED-00.55-SL01-(0.5-0.88')	Total/NA	Solid	8082A	314925
240-91496-42	ED-00.55-SL02-(0-0.42')	Total/NA	Solid	8082A	314925
240-91496-43	ED-00.55-SL02-(0.5-0.96')	Total/NA	Solid	8082A	314925
240-91496-44	ED-01.24-SL04-(0-0.84')	Total/NA	Solid	8082A	314925
240-91496-45	ED-01.24-SL04-(1-1.46')	Total/NA	Solid	8082A	314925
240-91496-46	ED-01.24-SL05-(0-0.42')	Total/NA	Solid	8082A	314925
240-91496-47	ED-01.24-SL05-(0-0.42')-DUP	Total/NA	Solid	8082A	314925
240-91496-48	ED-01.24-SL05-(0.5-1.46')	Total/NA	Solid	8082A	314925
240-91496-49	ED-01.24-SL06-(0.0-0.84')	Total/NA	Solid	8082A	314925
240-91496-50	ED-01.24-SL06-(1-1.96')	Total/NA	Solid	8082A	314925
MB 240-314925/23-A	Method Blank	Total/NA	Solid	8082A	314925
LCS 240-314925/24-A	Lab Control Sample	Total/NA	Solid	8082A	314925
240-91496-50 MS	ED-01.24-SL06-(1-1.96')	Total/NA	Solid	8082A	314925
240-91496-50 MSD	ED-01.24-SL06-(1-1.96')	Total/NA	Solid	8082A	314925

Analysis Batch: 315475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-36	ED-00.17-SL01-(0-0.75')-DUP	Total/NA	Solid	8082A	314925
240-91496-38	ED-00.17-SL01-(1.75-2.75')	Total/NA	Solid	8082A	314925

General Chemistry

Analysis Batch: 314935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-1	ED-00.00-SL01-(0-0.91')	Total/NA	Solid	Moisture	
240-91496-2	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	Moisture	
240-91496-3	ED-00.00-SL01-(2.21-3.12')	Total/NA	Solid	Moisture	
240-91496-5	ED-00.02-SL01-(0-0.63')	Total/NA	Solid	Moisture	
240-91496-6	ED-00.02-SL01-(0.63-1.76')	Total/NA	Solid	Moisture	
240-91496-7	ED-00.02-SL01-(1.76-2.18')	Total/NA	Solid	Moisture	
240-91496-8	ED-00.02-SL01-(2.18-3.43')	Total/NA	Solid	Moisture	
240-91496-10	ED-00.05-SL01-(0-0.67')	Total/NA	Solid	Moisture	
240-91496-11	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	Moisture	
240-91496-12	ED-00.05-SL01-(1.4-2.3')	Total/NA	Solid	Moisture	
240-91496-13	ED-00.05-SL01-(2.3-3.3')	Total/NA	Solid	Moisture	
240-91496-15	ED-00.08-SL03-(2.25-2.75')	Total/NA	Solid	Moisture	
240-91496-16	ED-00.08-SL03-(2.75-3.5')	Total/NA	Solid	Moisture	
240-91496-22	ED-00.08-SL05-(0-0.67')	Total/NA	Solid	Moisture	
240-91496-23	ED-00.08-SL05-(0.67-1.25')	Total/NA	Solid	Moisture	
240-91496-24	ED-00.08-SL05-(1.25-2.1')	Total/NA	Solid	Moisture	
240-91496-25	ED-00.08-SL05-(2.1-3')	Total/NA	Solid	Moisture	
240-91496-31	ED-00.13-SL01-(0-0.67')	Total/NA	Solid	Moisture	
240-91496-32	ED-00.13-SL01-(0.67-1.67')	Total/NA	Solid	Moisture	
240-91496-33	ED-00.13-SL01-(1.6-2.75')	Total/NA	Solid	Moisture	
240-91496-34	ED-00.13-SL01-(2.75-3.08')	Total/NA	Solid	Moisture	
240-91496-35	ED-00.17-SL01-(0-0.75')	Total/NA	Solid	Moisture	
240-91496-36	ED-00.17-SL01-(0-0.75')-DUP	Total/NA	Solid	Moisture	
240-91496-37	ED-00.17-SL01-(0.75-1.75')	Total/NA	Solid	Moisture	

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

General Chemistry (Continued)

Analysis Batch: 314935 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91496-38	ED-00.17-SL01-(1.75-2.75')	Total/NA	Solid	Moisture	
240-91496-39	ED-00.17-SL01-(2.75-3.75')	Total/NA	Solid	Moisture	
240-91496-40	ED-00.55-SL01-(0-0.42')	Total/NA	Solid	Moisture	
240-91496-41	ED-00.55-SL01-(0.5-0.88')	Total/NA	Solid	Moisture	
240-91496-42	ED-00.55-SL02-(0-0.42')	Total/NA	Solid	Moisture	
240-91496-43	ED-00.55-SL02-(0.5-0.96')	Total/NA	Solid	Moisture	
240-91496-44	ED-01.24-SL04-(0-0.84')	Total/NA	Solid	Moisture	
240-91496-45	ED-01.24-SL04-(1-1.46')	Total/NA	Solid	Moisture	
240-91496-46	ED-01.24-SL05-(0-0.42')	Total/NA	Solid	Moisture	
240-91496-47	ED-01.24-SL05-(0-0.42')-DUP	Total/NA	Solid	Moisture	
240-91496-48	ED-01.24-SL05-(0.5-1.46')	Total/NA	Solid	Moisture	
240-91496-49	ED-01.24-SL06-(0.0-0.84')	Total/NA	Solid	Moisture	
240-91496-50	ED-01.24-SL06-(1-1.96')	Total/NA	Solid	Moisture	
240-91496-51	ED-00.8-SL03-(1.25-2.25')	Total/NA	Solid	Moisture	
240-91496-2 DU	ED-00.00-SL01-(0.91-2.21')	Total/NA	Solid	Moisture	
240-91496-11 DU	ED-00.05-SL01-(0.67-1.2')	Total/NA	Solid	Moisture	
240-91496-35 DU	ED-00.17-SL01-(0-0.75')	Total/NA	Solid	Moisture	
240-91496-44 DU	ED-01.24-SL04-(0-0.84')	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.00-SL01-(0-0.91')

Date Collected: 02/07/18 09:16

Date Received: 02/14/18 09:40

Lab Sample ID: 240-91496-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

Client Sample ID: ED-00.00-SL01-(0-0.91')

Date Collected: 02/07/18 09:16

Date Received: 02/14/18 09:40

Lab Sample ID: 240-91496-1

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	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315196	02/18/18 16:59	KMG	TAL CAN

Client Sample ID: ED-00.00-SL01-(0.91-2.21')

Date Collected: 02/07/18 09:16

Date Received: 02/14/18 09:40

Lab Sample ID: 240-91496-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

Client Sample ID: ED-00.00-SL01-(0.91-2.21')

Date Collected: 02/07/18 09:16

Date Received: 02/14/18 09:40

Lab Sample ID: 240-91496-2

Matrix: Solid

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		5	315017	02/16/18 12:58	LSH	TAL CAN

Client Sample ID: ED-00.00-SL01-(2.21-3.12')

Date Collected: 02/07/18 09:16

Date Received: 02/14/18 09:40

Lab Sample ID: 240-91496-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

Client Sample ID: ED-00.00-SL01-(2.21-3.12')

Date Collected: 02/07/18 09:16

Date Received: 02/14/18 09:40

Lab Sample ID: 240-91496-3

Matrix: Solid

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315196	02/18/18 17:17	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.02-SL01-(0-0.63')

Lab Sample ID: 240-91496-5

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

Client Sample ID: ED-00.02-SL01-(0-0.63')

Lab Sample ID: 240-91496-5

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315196	02/18/18 17:54	KMG	TAL CAN

Client Sample ID: ED-00.02-SL01-(0.63-1.76')

Lab Sample ID: 240-91496-6

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

Client Sample ID: ED-00.02-SL01-(0.63-1.76')

Lab Sample ID: 240-91496-6

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315196	02/18/18 18:12	KMG	TAL CAN

Client Sample ID: ED-00.02-SL01-(1.76-2.18')

Lab Sample ID: 240-91496-7

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

Client Sample ID: ED-00.02-SL01-(1.76-2.18')

Lab Sample ID: 240-91496-7

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315196	02/18/18 18:31	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.02-SL01-(2.18-3.43')

Lab Sample ID: 240-91496-8

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

Client Sample ID: ED-00.02-SL01-(2.18-3.43')

Lab Sample ID: 240-91496-8

Date Collected: 02/07/18 09:38

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315196	02/18/18 18:49	KMG	TAL CAN

Client Sample ID: ED-00.05-SL01-(0-0.67')

Lab Sample ID: 240-91496-10

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

Client Sample ID: ED-00.05-SL01-(0-0.67')

Lab Sample ID: 240-91496-10

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		5	315196	02/18/18 19:26	KMG	TAL CAN

Client Sample ID: ED-00.05-SL01-(0.67-1.2')

Lab Sample ID: 240-91496-11

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

Client Sample ID: ED-00.05-SL01-(0.67-1.2')

Lab Sample ID: 240-91496-11

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	315194	02/18/18 21:32	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.05-SL01-(1.4-2.3')

Lab Sample ID: 240-91496-12

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

Client Sample ID: ED-00.05-SL01-(1.4-2.3')

Lab Sample ID: 240-91496-12

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	315194	02/18/18 15:15	KMG	TAL CAN

Client Sample ID: ED-00.05-SL01-(2.3-3.3')

Lab Sample ID: 240-91496-13

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

Client Sample ID: ED-00.05-SL01-(2.3-3.3')

Lab Sample ID: 240-91496-13

Date Collected: 02/07/18 10:03

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	315194	02/18/18 15:32	KMG	TAL CAN

Client Sample ID: ED-00.08-SL03-(2.25-2.75')

Lab Sample ID: 240-91496-15

Date Collected: 02/07/18 10:11

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

Client Sample ID: ED-00.08-SL03-(2.25-2.75')

Lab Sample ID: 240-91496-15

Date Collected: 02/07/18 10:11

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	315194	02/18/18 16:06	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.08-SL03-(2.75-3.5')

Lab Sample ID: 240-91496-16

Date Collected: 02/07/18 10:11

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:31	JWW	TAL CAN

Client Sample ID: ED-00.08-SL03-(2.75-3.5')

Lab Sample ID: 240-91496-16

Date Collected: 02/07/18 10:11

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	315194	02/18/18 16:23	KMG	TAL CAN

Client Sample ID: ED-00.08-SL05-(0-0.67')

Lab Sample ID: 240-91496-22

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.08-SL05-(0-0.67')

Lab Sample ID: 240-91496-22

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		20	315194	02/18/18 18:06	KMG	TAL CAN

Client Sample ID: ED-00.08-SL05-(0.67-1.25')

Lab Sample ID: 240-91496-23

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.08-SL05-(0.67-1.25')

Lab Sample ID: 240-91496-23

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		10	315194	02/18/18 18:23	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.08-SL05-(1.25-2.1')

Lab Sample ID: 240-91496-24

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.08-SL05-(1.25-2.1')

Lab Sample ID: 240-91496-24

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	315194	02/18/18 18:40	KMG	TAL CAN

Client Sample ID: ED-00.08-SL05-(2.1-3')

Lab Sample ID: 240-91496-25

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.08-SL05-(2.1-3')

Lab Sample ID: 240-91496-25

Date Collected: 02/07/18 10:26

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314916	02/15/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	315194	02/18/18 18:57	KMG	TAL CAN

Client Sample ID: ED-00.13-SL01-(0-0.67')

Lab Sample ID: 240-91496-31

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.13-SL01-(0-0.67')

Lab Sample ID: 240-91496-31

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		5	315208	02/19/18 22:10	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.13-SL01-(0.67-1.67')

Lab Sample ID: 240-91496-32

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.13-SL01-(0.67-1.67')

Lab Sample ID: 240-91496-32

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 14:50	KMG	TAL CAN

Client Sample ID: ED-00.13-SL01-(1.6-2.75')

Lab Sample ID: 240-91496-33

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.13-SL01-(1.6-2.75')

Lab Sample ID: 240-91496-33

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 15:08	KMG	TAL CAN

Client Sample ID: ED-00.13-SL01-(2.75-3.08')

Lab Sample ID: 240-91496-34

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.13-SL01-(2.75-3.08')

Lab Sample ID: 240-91496-34

Date Collected: 02/07/18 10:33

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 15:27	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.17-SL01-(0-0.75')

Lab Sample ID: 240-91496-35

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.17-SL01-(0-0.75')

Lab Sample ID: 240-91496-35

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		5	315208	02/19/18 15:45	KMG	TAL CAN

Client Sample ID: ED-00.17-SL01-(0-0.75')-DUP

Lab Sample ID: 240-91496-36

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.17-SL01-(0-0.75')-DUP

Lab Sample ID: 240-91496-36

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		5	315475	02/20/18 18:57	KMG	TAL CAN

Client Sample ID: ED-00.17-SL01-(0.75-1.75')

Lab Sample ID: 240-91496-37

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.17-SL01-(0.75-1.75')

Lab Sample ID: 240-91496-37

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		10	315208	02/19/18 16:22	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.17-SL01-(1.75-2.75')

Lab Sample ID: 240-91496-38

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.17-SL01-(1.75-2.75')

Lab Sample ID: 240-91496-38

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		50	315475	02/20/18 19:13	KMG	TAL CAN

Client Sample ID: ED-00.17-SL01-(2.75-3.75')

Lab Sample ID: 240-91496-39

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.17-SL01-(2.75-3.75')

Lab Sample ID: 240-91496-39

Date Collected: 02/07/18 10:41

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 16:58	KMG	TAL CAN

Client Sample ID: ED-00.55-SL01-(0-0.42')

Lab Sample ID: 240-91496-40

Date Collected: 02/07/18 11:30

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.55-SL01-(0-0.42')

Lab Sample ID: 240-91496-40

Date Collected: 02/07/18 11:30

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 17:17	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-00.55-SL01-(0.5-0.88')

Lab Sample ID: 240-91496-41

Date Collected: 02/07/18 11:40

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.55-SL01-(0.5-0.88')

Lab Sample ID: 240-91496-41

Date Collected: 02/07/18 11:40

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 17:35	KMG	TAL CAN

Client Sample ID: ED-00.55-SL02-(0-0.42')

Lab Sample ID: 240-91496-42

Date Collected: 02/07/18 13:08

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.55-SL02-(0-0.42')

Lab Sample ID: 240-91496-42

Date Collected: 02/07/18 13:08

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 17:53	KMG	TAL CAN

Client Sample ID: ED-00.55-SL02-(0.5-0.96')

Lab Sample ID: 240-91496-43

Date Collected: 02/07/18 13:16

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:45	JWW	TAL CAN

Client Sample ID: ED-00.55-SL02-(0.5-0.96')

Lab Sample ID: 240-91496-43

Date Collected: 02/07/18 13:16

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 19:07	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-01.24-SL04-(0-0.84')

Lab Sample ID: 240-91496-44

Date Collected: 02/07/18 13:20

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

Client Sample ID: ED-01.24-SL04-(0-0.84')

Lab Sample ID: 240-91496-44

Date Collected: 02/07/18 13:20

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 19:25	KMG	TAL CAN

Client Sample ID: ED-01.24-SL04-(1-1.46')

Lab Sample ID: 240-91496-45

Date Collected: 02/07/18 13:30

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

Client Sample ID: ED-01.24-SL04-(1-1.46')

Lab Sample ID: 240-91496-45

Date Collected: 02/07/18 13:30

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 19:44	KMG	TAL CAN

Client Sample ID: ED-01.24-SL05-(0-0.42')

Lab Sample ID: 240-91496-46

Date Collected: 02/07/18 13:50

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

Client Sample ID: ED-01.24-SL05-(0-0.42')

Lab Sample ID: 240-91496-46

Date Collected: 02/07/18 13:50

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 20:02	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-01.24-SL05-(0-0.42')-DUP

Lab Sample ID: 240-91496-47

Date Collected: 02/07/18 13:50

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

Client Sample ID: ED-01.24-SL05-(0-0.42')-DUP

Lab Sample ID: 240-91496-47

Date Collected: 02/07/18 13:50

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 20:20	KMG	TAL CAN

Client Sample ID: ED-01.24-SL05-(0.5-1.46')

Lab Sample ID: 240-91496-48

Date Collected: 02/07/18 13:56

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

Client Sample ID: ED-01.24-SL05-(0.5-1.46')

Lab Sample ID: 240-91496-48

Date Collected: 02/07/18 13:56

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 20:39	KMG	TAL CAN

Client Sample ID: ED-01.24-SL06-(0.0-0.84')

Lab Sample ID: 240-91496-49

Date Collected: 02/07/18 14:10

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

Client Sample ID: ED-01.24-SL06-(0.0-0.84')

Lab Sample ID: 240-91496-49

Date Collected: 02/07/18 14:10

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 20:57	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Client Sample ID: ED-01.24-SL06-(1-1.96')

Lab Sample ID: 240-91496-50

Date Collected: 02/07/18 14:18

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

Client Sample ID: ED-01.24-SL06-(1-1.96')

Lab Sample ID: 240-91496-50

Date Collected: 02/07/18 14:18

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314925	02/15/18 11:13	AMT	TAL CAN
Total/NA	Analysis	8082A		1	315208	02/19/18 21:15	KMG	TAL CAN

Client Sample ID: ED-00.8-SL03-(1.25-2.25')

Lab Sample ID: 240-91496-51

Date Collected: 02/07/18 10:11

Matrix: Solid

Date Received: 02/14/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	314935	02/15/18 11:54	JWW	TAL CAN

Client Sample ID: ED-00.8-SL03-(1.25-2.25')

Lab Sample ID: 240-91496-51

Date Collected: 02/07/18 10:11

Matrix: Solid

Date Received: 02/14/18 09:40

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			314904	02/15/18 09:44	AMT	TAL CAN
Total/NA	Analysis	8082A		5	315196	02/18/18 15:46	KMG	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91496-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18 *
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18 *
Kentucky (WW)	State Program	4	98016	12-31-18
Minnesota	NELAP	5	039-999-348	12-31-18
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18 *
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18 *
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

Chain of Custody Record

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Client Information Client Contact: Matt Brazzile Phone: 865-977-9997 E-Mail: dominic.nestlasie@testamericacant.com		Lab P/N: Nestlasie, Dominic J E-Mail: dominic.nestlasie@testamericacant.com		Carrier Tracking No(s): Page 1 of 5 Job #:
Company: Civil & Environmental Consultants Inc Address: 2704 Cherokee Farms Way, Suite 101 City: Knoxville State, Zip: TN, 37920 Phone: 865-399-1782 Email: mbrazzile@cecinc.com Project #: Arconic, Inc. - Elliott Ditch S/SOW#: Elliott Ditch		Analysis Requested: Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 902A-(MOD) PCBs Aroclors <input checked="" type="checkbox"/>		
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: S/SOW#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 M - Heurine N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3		
Sample Date Sample Time Sample Type (G-Comp, G-grab) Matrix (Wet, Solid, Composite, Other) Preservation Code		Special Instructions/Note: 240-91496 Chain of Custody		
Sample Identification ED-00.00-SL01-(0 - 0.91*) ED-00.00-SL01-(0.91 - 2.21*) ED-00.00-SL01-(2.21 - 3.12*) ED-00.00-SL01-(3.12 - 3.44*) ED-00.02-SL01-(0 - 0.63*) ED-00.02-SL01-(0.63 - 1.76*) ED-00.02-SL01-(1.76 - 2.18*) ED-00.02-SL01-(2.18 - 3.43*) ED-00.02-SL01-(3.43 - 4*) ED-00.05-SL01-(0 - 0.67*) ED-00.05-SL01-(0.67 - 1.2*)		Total Num 1 2 1 1 1 1 1 1 1 1 1 2		
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Relinquished by: PUCHAN Mucholik Date: 02/13/18 3:30p Relinquished by:		Method of Shipment: Date/Time: 2/14/18 940 Company: TAC Company		
Relinquished by:		Date/Time:		
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		



Chain of Custody Record

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Client Information		Sampler: Matt Brazzile/ Duncan Muchoki		Lab PM: Nestasia, Dominic J	
Client Contact: Matt Brazzile		Phone: 865-977-9997		E-Mail: dominic.nestasia@testamericainc.com	
Company: Civil & Environmental Consultants Inc		Address: 2704 Cherokee Farms Way, Suite 101		City: Knoxville	
State: TN		Zip: 37920		Phone: 865-399-1782	
Email: mbrazzile@cecinc.com		Project #: 172-367.0006		Project Name: Arcenic, Inc. - Elliott Ditch	
Site: Elliott Ditch		SSOWF:		Carrier Tracking Note:	
Due Date Requested:		TAI Requested (days):		Analysis Requested	
Standard		Sample Date		Sample Time	
Sample Type (G=Comp, G=grab)		Sample Matrix (W=Water, S=Soil, D=Dioxin, A=Air)		Field Filtered Sample (Yes or No)	
Preservation Code:		Perform MS/MSD (Yes or No)		602A-(MOD) PCBs Aroclors	
Sample Identification		Sample Date		Sample Time	
ED-00.05-SL01-(1.4 - 2.3)		2/7/18		10:03	
ED-00.05-SL01-(2.3 - 3.3)		2/7/18		10:03	
ED-00.05-SL01-(3.3 - 4.0)		2/7/18		10:03	
ED-00.08-SL03-(2.25 - 2.75)		2/7/18		10:11	
ED-00.08-SL03-(2.75 - 3.5)		2/7/18		10:11	
ED-00.08-SL03-(4 - 5)		2/7/18		10:14	
ED-00.08-SL03-(5 - 5.6)		2/7/18		10:14	
ED-00.08-SL03-(5.6 - 6.6)		2/7/18		10:14	
ED-00.08-SL03-(6.6 - 7)		2/7/18		10:14	
ED-00.08-SL03-(7 - 8)		2/7/18		10:14	
ED-00.08-SL05-(0 - 0.67)		2/7/18		10:26	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/OC Requirements:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: DUNCAN MUCHOKI		Date/Time: 02/19/18 3:30P		Company: Company	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Date/Time: 2/14/18	
				Date/Time: 940	
				Date/Time: Company	
				Date/Time: Company	



Chain of Custody Record

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Client Information
 Client Contact: Matt Brazzile
 Phone: 865-977-9997
 E-Mail: dmbrasil@testamericainc.com
 Lab PM: Nestasie, Dominic J
 Carrier Tracking No(s):
 Lab #:
 Page 3 of 5
 Job #:

Company: Civil & Environmental Consultants Inc
 Address: 2704 Cherokee Farms Way, Suite 101
 City: Knoxville
 State, Zip: TN, 37920
 Phone: 865-399-1782
 Email: mbrazzile@cecinc.com
 Project Name: Arconic, Inc. - Elliott Ditch
 Site: Elliott Ditch
 Due Date Requested:
 TAT Requested (days): Standard
 PO #:
 WO #:
 172-367.0006
 Project #:
 172-367.0006
 SSON#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Waste, Swab, Onsite, BTL, Texas, Awa)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A(MOD) PCBs Analyzers	Total Number of Containers	Special Instructions/Note:
ED-00.08-SL05-(0.67 - 1.25)	2/7/18	10:26	G	S	X	X		1	
ED-00.08-SL05-(1.25 - 2.1')	2/7/18	10:26	G	S	X	X		1	
ED-00.08-SL05-(2.1 - 3')	2/7/18	10:26	G	S	X	X		1	
ED-00.08-SL05-(3 - 4')	2/7/18	10:26	G	S	X	X		1	
ED-00.08-SL05-(4 - 5')	2/7/18	10:30	G	S	X	X		1	
ED-00.08-SL05-(5 - 6')	2/7/18	10:30	G	S	X	X		1	
ED-00.08-SL05-(6 - 7')	2/7/18	10:30	G	S	X	X		1	
ED-00.08-SL05-(7 - 8')	2/7/18	10:30	G	S	X	X		1	
ED-00.13-SL01-(0 - 0.67')	2/7/18	10:33	G	S	X	X		1	
ED-00.13-SL01-(0.67 - 1.67')	2/7/18	10:33	G	S	X	X		1	
ED-00.13-SL01-(1.67 - 2.75')	2/7/18	10:33	G	S	X	X		1	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/IOC Requirements:
 Method of Shipment: _____
 Date/Time: 02/13/18 9:30
 Date/Time: 2-14-18 940
 Company: DUNCAN MUCTON I
 Company: TAC
 Company: _____
 Company: _____

Relinquished by: _____
Relinquished by: _____
Relinquished by: _____
Custody Seals Intact: _____
 Δ Yes Δ No
Custody Seal No.: _____



TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Company: Civil & Environmental Consultants Inc
 Address: 2704 Cherokee Farms Way, Suite 101
 City: Knoxville
 State, Zip: TN, 37920
 Phone: 865-369-1782
 Email: mbrazillie@cecinc.com
 Project Name: Arconic, Inc. - Elliott Ditch
 Site: Elliott Ditch

Due Date Requested: TAT Requested (days): Standard
 Lab PM: Nestalie, Dominic J
 E-Mail: dominic.nestalie@testamericainc.com
 Sampler: Matt Brazillie/ Duncan Muchoki
 Phone: 865-977-9997
 Lab #:
 Project #:
 SSGWF

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (Water, Solid, Overhead, BT=Trace, AA=)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A-(MOD) PCBs Aroclors	Total Number of Containers	Special Instructions/Note:
ED-00.13-SL01(-2.75 - 3.08')	2/7/18	10:33	G	S	X	X		1	
ED-00.17-SL01(-0 - 0.75')	2/7/18	10:41	G	S	X	X		1	
ED-00.17-SL01(-0 - 0.75') - DUP	2/7/18	10:41	G	S	X	X		1	
ED-00.17-SL01(-0.75 - 1.75')	2/7/18	10:41	G	S	X	X		1	
ED-00.17-SL01(-1.75 - 2.75')	2/7/18	10:41	G	S	X	X		1	
ED-00.17-SL01(-2.75 - 3.75')	2/7/18	10:41	G	S	X	X		1	
ED-00.55-SL01(-0 - 0.42')	2/7/18	11:30	G	S	X	X		1	
ED-00.55-SL01(-0.5 - 0.88')	2/7/18	11:40	G	S	X	X		1	
ED-00.55-SL02(-0 - 0.42')	2/7/18	13:08	G	S	X	X		1	
ED-00.55-SL02(-0.5 - 0.96')	2/7/18	13:16	G	S	X	X		1	
ED-01.24-SL04(-0 - 0.84')	2/7/18	13:20	G	S	X	X		1	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/OC Requirements:

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: Duncan Muchoki Date: 02/13/18 Time: 3:39P Company: CEC
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

24/2.1

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TestAmerica Canton
 4101 Shuffel Street NW
 North Canton, OH 44720
 Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Lab PM:		Carrier Tracking No(s):					
Company: Civil & Environmental Consultants Inc		Nestlasie, Dominic J							
Address: 2704 Cherokee Farms Way, Suite 101		E-Mail: dominic.nestlasie@testamericainc.com							
City: Knoxville		Phone: 865-977-9997		Page: 5 of 5					
State, Zip: TN, 37920		Due Date Requested:		Job #:					
Phone: 865-399-1782		TAT Requested (days):		Analysis Requested					
PO #: Standard		Sample Date Requested:		Preservation Codes:					
WO #: 172-367.0006		Sample Date:		A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - Nitric Acid F - MeOH G - Ammonia H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - Nitro O - Ni(NO2) P - Ni(OH)2 Q - Ni(OH)2 R - Ni(OH)2 S - H2SO4 T - TSP Diethylhydrazide U - Acetone V - NiCl2 W - pH 4.5 Z - other (specify)					
Email: mbrazillie@cecinc.com		Project #:		Other:					
Project Name: Arconic, Inc. - Elliott Ditch		SSOW#:							
Site: Elliott Ditch									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weather Based Overstabilized Biotrans, AAAs)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A-(MOD) PCBs Aroclors	Total Number of Containers	Special Instructions/Note:
ED-01.24-SL04-(1 - 1.46')	2/7/18	13:30	G	S	X	X		1	
ED-01.24-SL05-(0 - 0.42')	2/7/18	13:50	G	S	X	X		1	
ED-01.24-SL05-(0 - 0.42')-DUP	2/7/18	13:50	G	S	X	X		1	
ED-01.24-SL05-(0.5 - 1.46')	2/7/18	13:56	G	S	X	X		1	
ED-01.24-SL06-(0.0 - 0.84')	2/7/18	14:10	G	S	X	X		1	
ED-01.24-SL06-(1 - 1.96')	2/7/18	14:18	G	S	X	X		1	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (Specify)

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by: **DUNCAN MULLICA** Date/Time: **02/13/18 9:30P** Company: **JAI**

Relinquished by: Date/Time: Company:

Relinquished by: Date/Time: Company:

Custody Seal No.: Yes No

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TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login #: 91496

Client CIVIL ENVIRON. CONSULT. Site Name _____
 Cooler Received on 2-14-18 Opened on 2-14-18

Cooler unpacked by:
POP

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box _____ Client Cooler _____ Box _____ Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-8 (CF -0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #36 (CF +0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples?
 If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC730269
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

RECEIVED SAMPLE ED-008-SL03-1.25-2.25-2-07-18 @ 1011
NOT ON COC, WILL LOG LAST

17. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

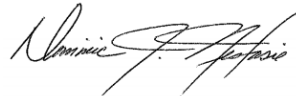
TestAmerica Job ID: 240-91127-1

Client Project/Site: Arconic, Inc. - Elliott Ditch

For:

Civil & Environmental Consultants Inc
2704 Cherokee Farm Way
Suite 101
Knoxville, Tennessee 37920

Attn: Matt Bruck



Authorized for release by:
2/13/2018 4:17:03 PM

Dominic Nestasie, Manager of Project Management
(412)963-7058
dominic.nestasie@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

Job ID: 240-91127-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-91127-1

Receipt:

The samples were received on 2/3/2018 at 9:30 AM; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at time of receipt was 1.7° C.

PCB's:

The following samples ED-00.54-SD03-(0-0.45') (240-91127-1) and ED-00.54-SD03-(0.45-0.9') (240-91127-2) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur:

The following samples ED-00.54-SD03-(0-0.45') (240-91127-1) and ED-00.54-SD03-(0.45-0.9') (240-91127-2) appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration. The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

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.

Method Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

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 CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



Sample Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-91127-1	ED-00.54-SD03-(0-0.45')	Solid	01/31/18 09:37	02/03/18 09:30
240-91127-2	ED-00.54-SD03-(0.45-0.9')	Solid	01/31/18 09:37	02/03/18 09:30

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Detection Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

Client Sample ID: ED-00.54-SD03-(0-0.45')

Lab Sample ID: 240-91127-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	552		57.5	21.8	ug/Kg	1	☼	8082A	Total/NA
PCB-1254	112	p	57.5	26.4	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	664		57.5	35.6	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.54-SD03-(0.45-0.9')

Lab Sample ID: 240-91127-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	293		59.3	22.5	ug/Kg	1	☼	8082A	Total/NA
PCB-1254	104	p	59.3	27.3	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	397		59.3	36.7	ug/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

Client Sample ID: ED-00.54-SD03-(0-0.45')

Lab Sample ID: 240-91127-1

Date Collected: 01/31/18 09:37

Matrix: Solid

Date Received: 02/03/18 09:30

Percent Solids: 85.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.3	U	57.5	25.3	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
PCB-1221	27.6	U	57.5	27.6	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
PCB-1232	26.4	U	57.5	26.4	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
PCB-1242	552		57.5	21.8	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
PCB-1248	27.6	U	57.5	27.6	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
PCB-1254	112 p		57.5	26.4	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
PCB-1260	25.3	U	57.5	25.3	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
Polychlorinated biphenyls, Total	664		57.5	35.6	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
Aroclor-1262	35.6	U	57.5	35.6	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1
Aroclor-1268	26.4	U	57.5	26.4	ug/Kg	☼	02/05/18 10:08	02/06/18 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		14 - 128	02/05/18 10:08	02/06/18 16:28	1
DCB Decachlorobiphenyl	62	p	10 - 132	02/05/18 10:08	02/06/18 16:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.1		0.1	0.1	%			02/05/18 09:37	1
Percent Moisture	14.9		0.1	0.1	%			02/05/18 09:37	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

Client Sample ID: ED-00.54-SD03-(0.45-0.9')

Lab Sample ID: 240-91127-2

Date Collected: 01/31/18 09:37

Matrix: Solid

Date Received: 02/03/18 09:30

Percent Solids: 85.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.1	U	59.3	26.1	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
PCB-1221	28.4	U	59.3	28.4	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
PCB-1232	27.3	U	59.3	27.3	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
PCB-1242	293		59.3	22.5	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
PCB-1248	28.4	U	59.3	28.4	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
PCB-1254	104	p	59.3	27.3	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
PCB-1260	26.1	U	59.3	26.1	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
Polychlorinated biphenyls, Total	397		59.3	36.7	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
Aroclor-1262	36.7	U	59.3	36.7	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1
Aroclor-1268	27.3	U	59.3	27.3	ug/Kg	☼	02/05/18 10:08	02/06/18 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	69		14 - 128	02/05/18 10:08	02/06/18 17:37	1
DCB Decachlorobiphenyl	62	<i>p</i>	10 - 132	02/05/18 10:08	02/06/18 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.1		0.1	0.1	%			02/05/18 09:37	1
Percent Moisture	14.9		0.1	0.1	%			02/05/18 09:37	1

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCBP1
		(14-128)	(10-132)
240-91127-1	ED-00.54-SD03-(0-0.45')	79	62 p
240-91127-2	ED-00.54-SD03-(0.45-0.9')	69	62 p
LCS 240-313483/22-A	Lab Control Sample	74	74
MB 240-313483/21-A	Method Blank	62	82

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-313483/21-A
Matrix: Solid
Analysis Batch: 313594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 313483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	22.0	U	50.0	22.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
PCB-1221	24.0	U	50.0	24.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
PCB-1232	23.0	U	50.0	23.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
PCB-1242	19.0	U	50.0	19.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
PCB-1248	24.0	U	50.0	24.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
PCB-1254	23.0	U	50.0	23.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
PCB-1260	22.0	U	50.0	22.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
Aroclor-1262	31.0	U	50.0	31.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1
Aroclor-1268	23.0	U	50.0	23.0	ug/Kg		02/05/18 10:08	02/06/18 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		14 - 128	02/05/18 10:08	02/06/18 11:42	1
DCB Decachlorobiphenyl	82		10 - 132	02/05/18 10:08	02/06/18 11:42	1

Lab Sample ID: LCS 240-313483/22-A
Matrix: Solid
Analysis Batch: 313594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 313483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1000	627.8		ug/Kg		63	47 - 120
PCB-1260	1000	682.3		ug/Kg		68	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	74		14 - 128
DCB Decachlorobiphenyl	74		10 - 132

Method: Moisture - Percent Moisture

Lab Sample ID: 240-91127-2 DU
Matrix: Solid
Analysis Batch: 313473

Client Sample ID: ED-00.54-SD03-(0.45-0.9')
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	85.1		85.1		%		0	20
Percent Moisture	14.9		14.9		%		0.2	20

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

GC Semi VOA

Prep Batch: 313483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91127-1	ED-00.54-SD03-(0-0.45')	Total/NA	Solid	3540C	
240-91127-2	ED-00.54-SD03-(0.45-0.9')	Total/NA	Solid	3540C	
MB 240-313483/21-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-313483/22-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 313594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91127-1	ED-00.54-SD03-(0-0.45')	Total/NA	Solid	8082A	313483
240-91127-2	ED-00.54-SD03-(0.45-0.9')	Total/NA	Solid	8082A	313483
MB 240-313483/21-A	Method Blank	Total/NA	Solid	8082A	313483
LCS 240-313483/22-A	Lab Control Sample	Total/NA	Solid	8082A	313483

General Chemistry

Analysis Batch: 313473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-91127-1	ED-00.54-SD03-(0-0.45')	Total/NA	Solid	Moisture	
240-91127-2	ED-00.54-SD03-(0.45-0.9')	Total/NA	Solid	Moisture	
240-91127-2 DU	ED-00.54-SD03-(0.45-0.9')	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

Client Sample ID: ED-00.54-SD03-(0-0.45')

Date Collected: 01/31/18 09:37

Date Received: 02/03/18 09:30

Lab Sample ID: 240-91127-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	313473	02/05/18 09:37	TPH	TAL CAN

Client Sample ID: ED-00.54-SD03-(0-0.45')

Date Collected: 01/31/18 09:37

Date Received: 02/03/18 09:30

Lab Sample ID: 240-91127-1

Matrix: Solid

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			313483	02/05/18 10:08	AMT	TAL CAN
Total/NA	Analysis	8082A		1	313594	02/06/18 16:28	KMG	TAL CAN

Client Sample ID: ED-00.54-SD03-(0.45-0.9')

Date Collected: 01/31/18 09:37

Date Received: 02/03/18 09:30

Lab Sample ID: 240-91127-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	313473	02/05/18 09:37	TPH	TAL CAN

Client Sample ID: ED-00.54-SD03-(0.45-0.9')

Date Collected: 01/31/18 09:37

Date Received: 02/03/18 09:30

Lab Sample ID: 240-91127-2

Matrix: Solid

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			313483	02/05/18 10:08	AMT	TAL CAN
Total/NA	Analysis	8082A		1	313594	02/06/18 17:37	KMG	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-91127-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18 *
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18 *
Kentucky (WW)	State Program	4	98016	12-31-18
Minnesota	NELAP	5	039-999-348	12-31-18
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18 *
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18 *
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

2.0/K1.7


TestAmerica Canton
 4101 Shuffel Street NW
 North Canton, OH 44720
 Phone (330) 497-93396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Lab PM: Nestlasie, Dominic J		Carrier Tracking No(s)	
Company: Civil & Environmental Consultants Inc		E-Mail: dominic.nestlasie@testamericanc.com		COC No:	
Address: 2704 Cherokee Farms Way, Suite 101		Phone: 865-977-9997		Page: 1 of 1	
City: Knoxville		State, Zip: TN, 37920		Job #:	
Phone: 865-399-1782		PO #:		Analysis Requested	
Email: mbrazill@cecinc.com		WO #:		Preservation Codes:	
Project Name: Arconic, Inc. - Elliott Ditch		Project #: 172-367,0006		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Acetic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Site: Elliott Ditch		SSON#:		Other:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Inorganic based, Organic based)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A-(MOD) PCBs Andors	Total Number of containers	Special Instructions/Note:
ED-00 54-SD03-(0 - 0.45')	1/31/18	09:37	G	S	X	X		1	
ED-00 54-SD03-(0.45 -0.9')	1/31/18	09:37	G	S	X	X		1	



240-91127 Chain of Custody

Possible Hazard Identification		Date: 02/02/18		Company: CEC	
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Radiological
Deliverable Requested: I, II, III, IV, Other (specify)		Date/Time: 02/02/18 3:00 pm	Date/Time: 2/3/18 9:30	Company: JAC	
Empty Kit Relinquished by:		Date/Time:	Date/Time:	Company:	
Relinquished by: DUNCAN MUCHOKI		Date/Time:	Date/Time:	Company:	
Relinquished by:		Date/Time:	Date/Time:	Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:			



TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 91127


Client CEC Site Name _____
 Cooler Received on 2/3/18 Opened on 2/3/18
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Cooler unpacked by:
DSO

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-8 (CF -0.3 °C) Observed Cooler Temp. 20 °C Corrected Cooler Temp. 1.7 °C
 IR GUN #36 (CF +0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 -Were tamper/custody seals intact and uncompromised? Yes No NA
 3. Shippers' packing slip attached to the cooler(s)? Yes No
 4. Did custody papers accompany the sample(s)? Yes No
 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels be reconciled with the COC? Yes No
 9. Were correct bottle(s) used for the test(s) indicated? Yes No
 10. Sufficient quantity received to perform indicated analyses? Yes No
 11. Are these work share samples?
 If yes, Questions 12-16 have been checked at the originating laboratory.
 12. Were all preserved sample(s) at the correct pH upon receipt? Yes No N/A pH Strip Lot# HC730269
 13. Were VOAs on the COC? Yes No N/A
 14. Were air bubbles >6 mm in any VOA vials? Yes No N/A  Larger than this.
 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No N/A
 16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

17. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

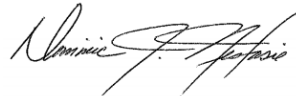
TestAmerica Job ID: 240-97885-1

Client Project/Site: Arconic, Inc. - Elliott Ditch

For:

Civil & Environmental Consultants Inc
2704 Cherokee Farm Way
Suite 101
Knoxville, Tennessee 37920

Attn: Matt Bruck



Authorized for release by:
7/12/2018 10:07:33 AM

Dominic Nestasie, Manager of Project Management
(412)963-7058
dominic.nestasie@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Qualifiers

GC Semi 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.
F2	MS/MSD RPD exceeds control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Job ID: 240-97885-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-97885-1

Receipt:

The samples were received on 6/27/2018 at 9:50 AM; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at time of receipt were 11.2° C and 13.4° C.

PCB's:

The following samples (240-97589-C-42-B MS) and (240-97589-C-42-C MSD), were diluted due to the nature of the sample matrix. Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

The following samples ED-00.19-SL01-0.0-0.8 (240-97885-36), (240-97589-C-42-B MS) and (240-97589-C-42-C MSD) were diluted due to abundance of target analytes. As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

The following samples ED-00.19-SL01-0.0-0.8 (240-97885-36), ED-00.21-SL01-0.0-1.0 (240-97885-41), (LCS 240-334947/24-A) and (MB 240-334947/23-A) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

The following samples ED-00.51-SL06-1.0-2.0 (240-97885-2), ED-01.14-SL01-0.5-1.0 (240-97885-4), ED-01.14-SL01-1.0-1.5 (240-97885-5), ED-00.31-SL01-0.0-1.0 (240-97885-89), ED-00.23-SL01-0.0-0.7 (240-97885-99) and ED-00.29-SL01-0.0-0.7 (240-97885-103) were diluted due to abundance of target analytes. As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

The following samples ED-00.51-SL06-1.0-2.0 (240-97885-2), ED-01.14-SL01-0.5-1.0 (240-97885-4), ED-01.14-SL01-1.0-1.5 (240-97885-5), ED-00.31-SL01-0.0-1.0 (240-97885-89), ED-00.23-SL01-0.0-0.7 (240-97885-99) and ED-00.29-SL01-0.0-0.7 (240-97885-103) were diluted to bring the concentration of target analytes within the calibration range: Elevated reporting limits (RLs) are provided.

The following samples ED-00.51-SL06-1.0-2.0 (240-97885-2), ED-01.14-SL01-0.5-1.0 (240-97885-4), ED-01.14-SL01-1.0-1.5 (240-97885-5), ED-01.14-SL05-0.0-0.5 (240-97885-8), ED-01.14-SL05-0.5-1.0 (240-97885-9), ED-01.14-SL06-0.0-0.5 (240-97885-85), ED-01.14-SL06-0.5-1.0 (240-97885-86), ED-01.14-SL06-1.0-1.5 (240-97885-87), ED-00.31-SL01-0.0-1.0 (240-97885-89), ED-00.31-SL01-1.0-2.0 (240-97885-90), ED-00.33-SL01-0.0-0.7 (240-97885-94), ED-00.33-SL01-0.7-1.6 (240-97885-95), ED-00.23-SL01-0.0-0.7 (240-97885-99), ED-00.29-SL01-0.7-1.7 (240-97885-104) and ED-00.29-SL01-1.7-2.7-FD (240-97885-105) appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: The samples have been quantified and reported using the best overall Aroclor/standard pattern match.

The following samples ED-00.51-SL06-1.0-2.0 (240-97885-2), ED-01.14-SL01-0.5-1.0 (240-97885-4), ED-01.14-SL01-1.0-1.5 (240-97885-5), ED-00.31-SL01-0.0-1.0 (240-97885-89), ED-00.33-SL01-0.0-0.7 (240-97885-94) and ED-00.33-SL01-0.7-1.6 (240-97885-95) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

The surrogate recovery for the following samples ED-00.17-SL02-1.8-2.8 MSD (240-97885-25[MSD]), ED-00.29-SL01-1.7-2.7 (240-97885-74), ED-00.44-SL01-0.5-1.0 (240-97885-78), ED-00.44-SL01-1.0-1.5 (240-97885-79), ED-00.44-SL01-1.5-1.8 (240-97885-80) and ED-00.44-SL01-1.8-2.0 (240-97885-81) were outside control limits. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

The following sample ED-00.44-SL01-0.0-0.5 (240-97885-77), required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

The following samples ED-00.19-SL01-1.8-2.3 (240-97885-34), ED-00.19-SL01-1.8-2.3 (240-97885-70), ED-00.29-SL01-1.7-2.7

Case Narrative

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Job ID: 240-97885-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

(240-97885-74), ED-00.44-SL01-0.0-0.5 (240-97885-77), ED-00.44-SL01-0.5-1.0 (240-97885-78), ED-00.44-SL01-1.0-1.5 (240-97885-79), ED-00.44-SL01-1.5-1.8 (240-97885-80) and ED-00.44-SL01-1.8-2.0 (240-97885-81) appear to contain polychlorinated biphenyls (PCBs); however, the Aroclor patterns of the PCBs in the samples are altered and do not directly match the laboratory's individual Aroclor standards used for instrument calibration. These altered PCB patterns may be caused by weathering, other environmental processes, and/or contributions from the presence of multiple Aroclors resulting in overlapping PCB patterns. The samples have been quantified and reported using the best overall Aroclor/standard pattern match.

The following samples ED-00.19-SL01-1.8-2.3 MS (240-97885-34[MS]) and ED-00.19-SL01-1.8-2.3 MSD (240-97885-34[MSD]) were diluted due to the abundance of target analytes. Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

The following samples ED-00.17-SL02-0.0-0.8-FD (240-97885-22) and ED-00.17-SL02-0.0-0.8 (240-97885-23) were diluted due to abundance of target analytes. As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

The following samples ED-00.00-SL03-0.9-1.7 (240-97885-15), ED-00.00-SL03-0.9-1.7 MS (240-97885-15[MS]), ED-00.00-SL03-0.9-1.7 MSD (240-97885-15[MSD]), ED-00.00-SL04-1.8-2.7 (240-97885-20), ED-01.14-SL04-1.5-1.8 (240-97885-57), ED-01.14-SL04-1.0-1.5 (240-97885-58), ED-01.14-SL04-0.0-0.5 (240-97885-59) and ED-00.00-SL03-0.9-1.7 (240-97885-61) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

The following sample ED-00.00-SL03-0.0-0.9 (240-97885-16) was diluted due to abundance of target analytes. As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

The following samples ED-00.00-SL03-0.9-1.7 (240-97885-15), ED-00.00-SL04-0.0-0.9 (240-97885-17), ED-00.00-SL04-0.9-1.8 (240-97885-18), ED-00.00-SL04-0.0-0.9-FD (240-97885-19), ED-00.17-SL02-0.0-0.8-FD (240-97885-22), ED-00.17-SL02-0.0-0.8 (240-97885-23), ED-00.17-SL02-0.8-1.8 (240-97885-24), ED-00.41-SL01-0.0-0.5 (240-97885-27), ED-00.41-SL01-1.0-1.5 (240-97885-28), ED-00.41-SL01-1.5-2.0 (240-97885-29), ED-00.41-SL01-1.5-2.0-FD (240-97885-30), ED-01.14-SL04-1.5-1.8 (240-97885-57), ED-01.14-SL04-1.0-1.5 (240-97885-58), ED-01.14-SL04-0.0-0.5 (240-97885-59), ED-00.00-SL03-0.9-1.7 (240-97885-61), ED-00.36-SL01-0.0-0.4 (240-97885-62), ED-00.41-SL01-0.5-1.0 (240-97885-66) and ED-00.36-SL01-1.5-2.0-FD (240-97885-68) appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration. The samples have been quantified and reported using the best overall Aroclor/standard pattern match.

The following sample ED-00.00-SL03-0.0-0.9 (240-97885-16) was diluted to bring the concentration of target analytes within the calibration range. Elevated reporting limits (RLs) are provided.

The following samples ED-01.14-SL05-1.0-1.5 (240-97885-11) and ED-00.00-SL03-0.0-0.9 (240-97885-16) appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration. The samples have been quantified and reported using the best overall Aroclor/standard pattern match.

The following samples ED-00.00-SL03-1.7-2.5 (240-97885-14) and ED-00.00-SL03-0.0-0.9 (240-97885-16) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

The following sample ED-00.27-SL01-0.0-1.0 (240-97885-46) was diluted due to abundance of target analytes. As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

The following samples ED-01.14-SL04-0.5-1.0 (240-97885-56), (240-98076-G-1-G), (240-98076-G-1-H MS) and (240-98076-G-1-I MSD) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry:

Case Narrative

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Job ID: 240-97885-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

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.

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Method Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN
3540C	Soxhlet Extraction	SW846	TAL CAN

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 CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



Sample Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-97885-2	ED-00.51-SL06-1.0-2.0	Solid	06/16/18 16:40	06/27/18 09:50
240-97885-4	ED-01.14-SL01-0.5-1.0	Solid	06/15/18 18:12	06/27/18 09:50
240-97885-5	ED-01.14-SL01-1.0-1.5	Solid	06/15/18 18:17	06/27/18 09:50
240-97885-8	ED-01.14-SL05-0.0-0.5	Solid	06/15/18 18:26	06/27/18 09:50
240-97885-9	ED-01.14-SL05-0.5-1.0	Solid	06/15/18 18:27	06/27/18 09:50
240-97885-11	ED-01.14-SL05-1.0-1.5	Solid	06/15/18 18:30	06/27/18 09:50
240-97885-14	ED-00.00-SL03-1.7-2.5	Solid	06/14/18 15:52	06/27/18 09:50
240-97885-15	ED-00.00-SL03-0.9-1.7	Solid	06/14/18 15:50	06/27/18 09:50
240-97885-16	ED-00.00-SL03-0.0-0.9	Solid	06/14/18 15:47	06/27/18 09:50
240-97885-17	ED-00.00-SL04-0.0-0.9	Solid	06/14/18 16:10	06/27/18 09:50
240-97885-18	ED-00.00-SL04-0.9-1.8	Solid	06/14/18 16:15	06/27/18 09:50
240-97885-19	ED-00.00-SL04-0.0-0.9-FD	Solid	06/14/18 16:10	06/27/18 09:50
240-97885-20	ED-00.00-SL04-1.8-2.7	Solid	06/14/18 16:19	06/27/18 09:50
240-97885-22	ED-00.17-SL02-0.0-0.8-FD	Solid	06/14/18 15:20	06/27/18 09:50
240-97885-23	ED-00.17-SL02-0.0-0.8	Solid	06/14/18 15:20	06/27/18 09:50
240-97885-24	ED-00.17-SL02-0.8-1.8	Solid	06/14/18 15:22	06/27/18 09:50
240-97885-25	ED-00.17-SL02-1.8-2.8	Solid	06/14/18 15:24	06/27/18 09:50
240-97885-27	ED-00.41-SL01-0.0-0.5	Solid	06/14/18 10:03	06/27/18 09:50
240-97885-28	ED-00.41-SL01-1.0-1.5	Solid	06/14/18 10:06	06/27/18 09:50
240-97885-29	ED-00.41-SL01-1.5-2.0	Solid	06/14/18 10:08	06/27/18 09:50
240-97885-30	ED-00.41-SL01-1.5-2.0-FD	Solid	06/14/18 10:08	06/27/18 09:50
240-97885-34	ED-00.19-SL01-1.8-2.3	Solid	06/14/18 14:48	06/27/18 09:50
240-97885-35	ED-00.19-SL01-1.5-1.8	Solid	06/14/18 14:46	06/27/18 09:50
240-97885-36	ED-00.19-SL01-0.0-0.8	Solid	06/14/18 04:40	06/27/18 09:50
240-97885-37	ED-00.19-SL01-0.8-1.5	Solid	06/14/18 14:42	06/27/18 09:50
240-97885-38	ED-00.19-SL01-0.8-1.5-FD	Solid	06/14/18 14:42	06/27/18 09:50
240-97885-41	ED-00.21-SL01-0.0-1.0	Solid	06/14/18 14:56	06/27/18 09:50
240-97885-42	ED-00.21-SL01-1.0-2.0	Solid	06/14/18 14:58	06/27/18 09:50
240-97885-43	ED-00.21-SL01-1.0-2.0-FD	Solid	06/14/18 14:58	06/27/18 09:50
240-97885-46	ED-00.27-SL01-0.0-1.0	Solid	06/14/18 13:39	06/27/18 09:50
240-97885-47	ED-00.27-SL01-1.0-1.9	Solid	06/14/18 13:41	06/27/18 09:50
240-97885-48	ED-00.27-SL01-1.9-2.8	Solid	06/14/18 13:43	06/27/18 09:50
240-97885-50	ED-00.23-SL01-0.7-1.2	Solid	06/14/18 12:55	06/27/18 09:50
240-97885-51	ED-00.23-SL01-0.7-1.2-FD	Solid	06/14/18 12:55	06/27/18 09:50
240-97885-56	ED-01.14-SL04-0.5-1.0	Solid	06/15/18 18:33	06/27/18 09:50
240-97885-57	ED-01.14-SL04-1.5-1.8	Solid	06/15/18 18:40	06/27/18 09:50
240-97885-58	ED-01.14-SL04-1.0-1.5	Solid	06/15/18 18:35	06/27/18 09:50
240-97885-59	ED-01.14-SL04-0.0-0.5	Solid	06/15/18 18:30	06/27/18 09:50
240-97885-60	ED-00.36-SL01-0.4-1.0	Solid	06/14/18 10:58	06/27/18 09:50
240-97885-61	ED-00.00-SL03-0.9-1.7	Solid	06/14/18 15:50	06/27/18 09:50
240-97885-62	ED-00.36-SL01-0.0-0.4	Solid	06/14/18 10:50	06/27/18 09:50
240-97885-65	ED-00.36-SL01-1.5-2.0	Solid	06/14/18 10:50	06/27/18 09:50
240-97885-66	ED-00.41-SL01-0.5-1.0	Solid	06/14/18 10:05	06/27/18 09:50
240-97885-68	ED-00.36-SL01-1.5-2.0-FD	Solid	06/14/18 10:50	06/27/18 09:50
240-97885-69	ED-00.36-SL01-0.4-1.0	Solid	06/14/18 10:55	06/27/18 09:50
240-97885-70	ED-00.19-SL01-1.8-2.3	Solid	06/14/18 14:48	06/27/18 09:50
240-97885-74	ED-00.29-SL01-1.7-2.7	Solid	06/14/18 13:36	06/27/18 09:50
240-97885-77	ED-00.44-SL01-0.0-0.5	Solid	06/14/18 11:20	06/27/18 09:50
240-97885-78	ED-00.44-SL01-0.5-1.0	Solid	06/14/18 11:22	06/27/18 09:50
240-97885-79	ED-00.44-SL01-1.0-1.5	Solid	06/14/18 11:27	06/27/18 09:50
240-97885-80	ED-00.44-SL01-1.5-1.8	Solid	06/14/18 11:34	06/27/18 09:50
240-97885-81	ED-00.44-SL01-1.8-2.0	Solid	06/14/18 11:40	06/27/18 09:50
240-97885-85	ED-01.14-SL06-0.0-0.5	Solid	06/13/18 13:56	06/27/18 09:50

TestAmerica Canton

Sample Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-97885-86	ED-01.14-SL06-0.5-1.0	Solid	06/13/18 13:58	06/27/18 09:50
240-97885-87	ED-01.14-SL06-1.0-1.5	Solid	06/13/18 14:12	06/27/18 09:50
240-97885-89	ED-00.31-SL01-0.0-1.0	Solid	06/14/18 12:13	06/27/18 09:50
240-97885-90	ED-00.31-SL01-1.0-2.0	Solid	06/14/18 12:15	06/27/18 09:50
240-97885-94	ED-00.33-SL01-0.0-0.7	Solid	06/14/18 12:20	06/27/18 09:50
240-97885-95	ED-00.33-SL01-0.7-1.6	Solid	06/14/18 12:25	06/27/18 09:50
240-97885-96	ED-00.33-SL01-1.6-2.3	Solid	06/14/18 12:27	06/27/18 09:50
240-97885-99	ED-00.23-SL01-0.0-0.7	Solid	06/14/18 12:51	06/27/18 09:50
240-97885-100	ED-00.23-SL01-1.2-2.0	Solid	06/14/18 12:56	06/27/18 09:50
240-97885-103	ED-00.29-SL01-0.0-0.7	Solid	06/14/18 13:32	06/27/18 09:50
240-97885-104	ED-00.29-SL01-0.7-1.7	Solid	06/14/18 13:34	06/27/18 09:50
240-97885-105	ED-00.29-SL01-1.7-2.7-FD	Solid	06/14/18 13:36	06/27/18 09:50
240-97885-106	ED-00.36-SL01-1.0-1.5	Solid	06/14/18 10:51	06/27/18 09:50

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.51-SL06-1.0-2.0

Lab Sample ID: 240-97885-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	2790		292	140	ug/Kg	5	☒	8082A	Total/NA
PCB-1260	422		292	128	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	3210		292	181	ug/Kg	5	☒	8082A	Total/NA

Client Sample ID: ED-01.14-SL01-0.5-1.0

Lab Sample ID: 240-97885-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	11400		604	290	ug/Kg	10	☒	8082A	Total/NA
PCB-1260	1300		604	266	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	12700		604	374	ug/Kg	10	☒	8082A	Total/NA

Client Sample ID: ED-01.14-SL01-1.0-1.5

Lab Sample ID: 240-97885-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	6330		624	299	ug/Kg	10	☒	8082A	Total/NA
PCB-1260	943		624	274	ug/Kg	10	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	7270		624	387	ug/Kg	10	☒	8082A	Total/NA

Client Sample ID: ED-01.14-SL05-0.0-0.5

Lab Sample ID: 240-97885-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	210		62.8	30.2	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	210		62.8	39.0	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.14-SL05-0.5-1.0

Lab Sample ID: 240-97885-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	230		60.3	29.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	230		60.3	37.4	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.14-SL05-1.0-1.5

Lab Sample ID: 240-97885-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	184		62.5	30.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	184		62.5	38.7	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.00-SL03-1.7-2.5

Lab Sample ID: 240-97885-14

No Detections.

Client Sample ID: ED-00.00-SL03-0.9-1.7

Lab Sample ID: 240-97885-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	73.6		55.4	26.6	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	73.6		55.4	34.4	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.00-SL03-0.0-0.9

Lab Sample ID: 240-97885-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1260		327	157	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1260		327	203	ug/Kg	5	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.00-SL04-0.0-0.9

Lab Sample ID: 240-97885-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	35.3	J	60.1	28.9	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.00-SL04-0.9-1.8

Lab Sample ID: 240-97885-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	34.6	J	59.1	28.4	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.00-SL04-0.0-0.9-FD

Lab Sample ID: 240-97885-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	29.2	J	55.8	26.8	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.00-SL04-1.8-2.7

Lab Sample ID: 240-97885-20

No Detections.

Client Sample ID: ED-00.17-SL02-0.0-0.8-FD

Lab Sample ID: 240-97885-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	60400		3550	1710	ug/Kg	50	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	60400		3550	2200	ug/Kg	50	☼	8082A	Total/NA

Client Sample ID: ED-00.17-SL02-0.0-0.8

Lab Sample ID: 240-97885-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	94200		5890	2820	ug/Kg	100	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	94200		5890	3650	ug/Kg	100	☼	8082A	Total/NA

Client Sample ID: ED-00.17-SL02-0.8-1.8

Lab Sample ID: 240-97885-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	3940		289	139	ug/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	3940		289	179	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: ED-00.17-SL02-1.8-2.8

Lab Sample ID: 240-97885-25

No Detections.

Client Sample ID: ED-00.41-SL01-0.0-0.5

Lab Sample ID: 240-97885-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	19200		1340	644	ug/Kg	20	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	19200		1340	831	ug/Kg	20	☼	8082A	Total/NA

Client Sample ID: ED-00.41-SL01-1.0-1.5

Lab Sample ID: 240-97885-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	454		58.7	28.2	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	454		58.7	36.4	ug/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.41-SL01-1.5-2.0

Lab Sample ID: 240-97885-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	39.2	J p	62.8	30.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	39.2	J	62.8	38.9	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.41-SL01-1.5-2.0-FD

Lab Sample ID: 240-97885-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	41.0	J	60.5	29.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	41.0	J	60.5	37.5	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.19-SL01-1.8-2.3

Lab Sample ID: 240-97885-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1690		281	135	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1690		281	174	ug/Kg	5	☒	8082A	Total/NA

Client Sample ID: ED-00.19-SL01-1.5-1.8

Lab Sample ID: 240-97885-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1580		310	149	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1580		310	193	ug/Kg	5	☒	8082A	Total/NA

Client Sample ID: ED-00.19-SL01-0.0-0.8

Lab Sample ID: 240-97885-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1500		286	137	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1500		286	177	ug/Kg	5	☒	8082A	Total/NA

Client Sample ID: ED-00.19-SL01-0.8-1.5

Lab Sample ID: 240-97885-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	182		61.4	29.5	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	182		61.4	38.1	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.19-SL01-0.8-1.5-FD

Lab Sample ID: 240-97885-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	170		60.8	29.2	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	170		60.8	37.7	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.21-SL01-0.0-1.0

Lab Sample ID: 240-97885-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	826		61.7	29.6	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	826		61.7	38.3	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.21-SL01-1.0-2.0

Lab Sample ID: 240-97885-42

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.21-SL01-1.0-2.0-FD

Lab Sample ID: 240-97885-43

No Detections.

Client Sample ID: ED-00.27-SL01-0.0-1.0

Lab Sample ID: 240-97885-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	25500		3640	1750	ug/Kg	50	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	25500		3640	2260	ug/Kg	50	☒	8082A	Total/NA

Client Sample ID: ED-00.27-SL01-1.0-1.9

Lab Sample ID: 240-97885-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	127		62.7	30.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	127		62.7	38.9	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.27-SL01-1.9-2.8

Lab Sample ID: 240-97885-48

No Detections.

Client Sample ID: ED-00.23-SL01-0.7-1.2

Lab Sample ID: 240-97885-50

No Detections.

Client Sample ID: ED-00.23-SL01-0.7-1.2-FD

Lab Sample ID: 240-97885-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	32.0	J	58.5	28.1	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.14-SL04-0.5-1.0

Lab Sample ID: 240-97885-56

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	729	p	62.0	29.8	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	729		62.0	38.5	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.14-SL04-1.5-1.8

Lab Sample ID: 240-97885-57

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1080		63.8	30.6	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1080		63.8	39.5	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.14-SL04-1.0-1.5

Lab Sample ID: 240-97885-58

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	768		60.7	29.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	768		60.7	37.6	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.14-SL04-0.0-0.5

Lab Sample ID: 240-97885-59

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	2460		331	159	ug/Kg	5	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	2460		331	205	ug/Kg	5	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.36-SL01-0.4-1.0

Lab Sample ID: 240-97885-60

No Detections.

Client Sample ID: ED-00.00-SL03-0.9-1.7

Lab Sample ID: 240-97885-61

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	141		57.8	27.8	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	141		57.8	35.8	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.36-SL01-0.0-0.4

Lab Sample ID: 240-97885-62

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	368		52.1	25.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	368		52.1	32.3	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.36-SL01-1.5-2.0

Lab Sample ID: 240-97885-65

No Detections.

Client Sample ID: ED-00.41-SL01-0.5-1.0

Lab Sample ID: 240-97885-66

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1980		116	55.5	ug/Kg	2	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1980		116	71.7	ug/Kg	2	☒	8082A	Total/NA

Client Sample ID: ED-00.36-SL01-1.5-2.0-FD

Lab Sample ID: 240-97885-68

No Detections.

Client Sample ID: ED-00.36-SL01-0.4-1.0

Lab Sample ID: 240-97885-69

No Detections.

Client Sample ID: ED-00.19-SL01-1.8-2.3

Lab Sample ID: 240-97885-70

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1780		116	55.7	ug/Kg	2	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1780		116	71.9	ug/Kg	2	☒	8082A	Total/NA

Client Sample ID: ED-00.29-SL01-1.7-2.7

Lab Sample ID: 240-97885-74

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	66.8	J	68.4	32.8	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	66.8	J	68.4	42.4	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.44-SL01-0.0-0.5

Lab Sample ID: 240-97885-77

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	340		53.4	25.6	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	340		53.4	33.1	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.44-SL01-0.5-1.0

Lab Sample ID: 240-97885-78

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.44-SL01-0.5-1.0 (Continued)

Lab Sample ID: 240-97885-78

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	405		53.1	25.3	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	405		53.1	32.9	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.44-SL01-1.0-1.5

Lab Sample ID: 240-97885-79

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	448		54.8	26.3	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	448		54.8	34.0	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.44-SL01-1.5-1.8

Lab Sample ID: 240-97885-80

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	30.2	J p	54.4	26.1	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	94.4		54.4	33.7	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.44-SL01-1.8-2.0

Lab Sample ID: 240-97885-81

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	142	p	58.1	27.9	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	287		58.1	36.1	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.14-SL06-0.0-0.5

Lab Sample ID: 240-97885-85

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1180		65.8	31.6	ug/Kg	1	☒	8082A	Total/NA
PCB-1260	387		65.8	29.0	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	1570		65.8	40.8	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.14-SL06-0.5-1.0

Lab Sample ID: 240-97885-86

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	319		62.1	29.8	ug/Kg	1	☒	8082A	Total/NA
PCB-1260	113		62.1	27.3	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	432		62.1	38.5	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-01.14-SL06-1.0-1.5

Lab Sample ID: 240-97885-87

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	221		64.2	30.8	ug/Kg	1	☒	8082A	Total/NA
PCB-1260	61.5	J	64.2	28.2	ug/Kg	1	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	283		64.2	39.8	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: ED-00.31-SL01-0.0-1.0

Lab Sample ID: 240-97885-89

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	22400		1300	624	ug/Kg	20	☒	8082A	Total/NA
Polychlorinated biphenyls, Total	22400		1300	806	ug/Kg	20	☒	8082A	Total/NA

Client Sample ID: ED-00.31-SL01-1.0-2.0

Lab Sample ID: 240-97885-90

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.31-SL01-1.0-2.0 (Continued)

Lab Sample ID: 240-97885-90

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	372		57.9	27.8	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	372		57.9	35.9	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.33-SL01-0.0-0.7

Lab Sample ID: 240-97885-94

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	976		63.2	30.4	ug/Kg	1	☼	8082A	Total/NA
PCB-1260	166		63.2	27.8	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1140		63.2	39.2	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.33-SL01-0.7-1.6

Lab Sample ID: 240-97885-95

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	333		56.0	26.9	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	333		56.0	34.7	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.33-SL01-1.6-2.3

Lab Sample ID: 240-97885-96

No Detections.

Client Sample ID: ED-00.23-SL01-0.0-0.7

Lab Sample ID: 240-97885-99

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	11400		620	298	ug/Kg	10	☼	8082A	Total/NA
PCB-1260	1260		620	273	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	12700		620	385	ug/Kg	10	☼	8082A	Total/NA

Client Sample ID: ED-00.23-SL01-1.2-2.0

Lab Sample ID: 240-97885-100

No Detections.

Client Sample ID: ED-00.29-SL01-0.0-0.7

Lab Sample ID: 240-97885-103

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	6460		576	276	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	6460		576	357	ug/Kg	10	☼	8082A	Total/NA

Client Sample ID: ED-00.29-SL01-0.7-1.7

Lab Sample ID: 240-97885-104

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	53.1	J	54.9	26.3	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	53.1	J	54.9	34.0	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: ED-00.29-SL01-1.7-2.7-FD

Lab Sample ID: 240-97885-105

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	45.2	J	65.3	31.3	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	45.2	J	65.3	40.5	ug/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.36-SL01-1.0-1.5

Lab Sample ID: 240-97885-106

No Detections.

- 1
- 2
- 3
- 4
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- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.51-SL06-1.0-2.0

Lab Sample ID: 240-97885-2

Date Collected: 06/16/18 16:40

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	128	U	292	128	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5
PCB-1221	140	U	292	140	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5
PCB-1232	134	U	292	134	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5
PCB-1242	111	U	292	111	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5
PCB-1248	2790		292	140	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5
PCB-1254	134	U	292	134	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5
PCB-1260	422		292	128	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5
Polychlorinated biphenyls, Total	3210		292	181	ug/Kg	☼	07/06/18 14:06	07/10/18 09:58	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	07/06/18 14:06	07/10/18 09:58	5
DCB Decachlorobiphenyl	73		10 - 132	07/06/18 14:06	07/10/18 09:58	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.3		0.1	0.1	%			07/02/18 08:55	1
Percent Moisture	16.7		0.1	0.1	%			07/02/18 08:55	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-01.14-SL01-0.5-1.0

Lab Sample ID: 240-97885-4

Date Collected: 06/15/18 18:12

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 81.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	266	U	604	266	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10
PCB-1221	290	U	604	290	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10
PCB-1232	278	U	604	278	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10
PCB-1242	229	U	604	229	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10
PCB-1248	11400		604	290	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10
PCB-1254	278	U	604	278	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10
PCB-1260	1300		604	266	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10
Polychlorinated biphenyls, Total	12700		604	374	ug/Kg	☼	07/06/18 14:06	07/10/18 10:15	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60	p	14 - 128	07/06/18 14:06	07/10/18 10:15	10
DCB Decachlorobiphenyl	57		10 - 132	07/06/18 14:06	07/10/18 10:15	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.0		0.1	0.1	%			07/02/18 08:55	1
Percent Moisture	19.0		0.1	0.1	%			07/02/18 08:55	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-01.14-SL01-1.0-1.5

Lab Sample ID: 240-97885-5

Date Collected: 06/15/18 18:17

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	274	U	624	274	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10
PCB-1221	299	U	624	299	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10
PCB-1232	287	U	624	287	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10
PCB-1242	237	U	624	237	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10
PCB-1248	6330		624	299	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10
PCB-1254	287	U	624	287	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10
PCB-1260	943		624	274	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10
Polychlorinated biphenyls, Total	7270		624	387	ug/Kg	☼	07/06/18 14:06	07/10/18 10:33	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		14 - 128	07/06/18 14:06	07/10/18 10:33	10
DCB Decachlorobiphenyl	67		10 - 132	07/06/18 14:06	07/10/18 10:33	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.4		0.1	0.1	%			07/02/18 08:55	1
Percent Moisture	16.6		0.1	0.1	%			07/02/18 08:55	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-01.14-SL05-0.0-0.5

Lab Sample ID: 240-97885-8

Date Collected: 06/15/18 18:26

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.6	U	62.8	27.6	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1
PCB-1221	30.2	U	62.8	30.2	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1
PCB-1232	28.9	U	62.8	28.9	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1
PCB-1242	23.9	U	62.8	23.9	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1
PCB-1248	210		62.8	30.2	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1
PCB-1254	28.9	U	62.8	28.9	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1
PCB-1260	27.6	U	62.8	27.6	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1
Polychlorinated biphenyls, Total	210		62.8	39.0	ug/Kg	☼	07/06/18 14:06	07/10/18 10:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		14 - 128	07/06/18 14:06	07/10/18 10:50	1
DCB Decachlorobiphenyl	79		10 - 132	07/06/18 14:06	07/10/18 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.0		0.1	0.1	%			07/02/18 08:55	1
Percent Moisture	23.0		0.1	0.1	%			07/02/18 08:55	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-01.14-SL05-0.5-1.0

Lab Sample ID: 240-97885-9

Date Collected: 06/15/18 18:27

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 79.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.5	U	60.3	26.5	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1
PCB-1221	29.0	U	60.3	29.0	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1
PCB-1232	27.7	U	60.3	27.7	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1
PCB-1242	22.9	U	60.3	22.9	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1
PCB-1248	230		60.3	29.0	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1
PCB-1254	27.7	U	60.3	27.7	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1
PCB-1260	26.5	U	60.3	26.5	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1
Polychlorinated biphenyls, Total	230		60.3	37.4	ug/Kg	☼	07/06/18 14:06	07/10/18 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		14 - 128	07/06/18 14:06	07/10/18 11:08	1
DCB Decachlorobiphenyl	67		10 - 132	07/06/18 14:06	07/10/18 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.8		0.1	0.1	%			07/02/18 08:55	1
Percent Moisture	20.2		0.1	0.1	%			07/02/18 08:55	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-01.14-SL05-1.0-1.5

Lab Sample ID: 240-97885-11

Date Collected: 06/15/18 18:30

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.5	U	62.5	27.5	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1
PCB-1221	30.0	U	62.5	30.0	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1
PCB-1232	28.7	U	62.5	28.7	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1
PCB-1242	23.7	U	62.5	23.7	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1
PCB-1248	184		62.5	30.0	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1
PCB-1254	28.7	U	62.5	28.7	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1
PCB-1260	27.5	U	62.5	27.5	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1
Polychlorinated biphenyls, Total	184		62.5	38.7	ug/Kg	☼	07/09/18 07:37	07/11/18 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		14 - 128	07/09/18 07:37	07/11/18 12:21	1
DCB Decachlorobiphenyl	90		10 - 132	07/09/18 07:37	07/11/18 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.8		0.1	0.1	%			07/02/18 08:55	1
Percent Moisture	22.2		0.1	0.1	%			07/02/18 08:55	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.00-SL03-1.7-2.5

Lab Sample ID: 240-97885-14

Date Collected: 06/14/18 15:52

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.4	U	62.2	27.4	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1
PCB-1221	29.8	U	62.2	29.8	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1
PCB-1232	28.6	U	62.2	28.6	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1
PCB-1242	23.6	U	62.2	23.6	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1
PCB-1248	29.8	U	62.2	29.8	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1
PCB-1254	28.6	U	62.2	28.6	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1
PCB-1260	27.4	U	62.2	27.4	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1
Polychlorinated biphenyls, Total	38.5	U	62.2	38.5	ug/Kg	☼	07/09/18 07:37	07/11/18 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	07/09/18 07:37	07/11/18 12:40	1
DCB Decachlorobiphenyl	70		10 - 132	07/09/18 07:37	07/11/18 12:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.7		0.1	0.1	%			07/02/18 08:55	1
Percent Moisture	22.3		0.1	0.1	%			07/02/18 08:55	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.00-SL03-0.9-1.7

Lab Sample ID: 240-97885-15

Date Collected: 06/14/18 15:50

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 87.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	24.4	U F2	55.4	24.4	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1
PCB-1221	26.6	U	55.4	26.6	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1
PCB-1232	25.5	U	55.4	25.5	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1
PCB-1242	21.1	U	55.4	21.1	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1
PCB-1248	73.6		55.4	26.6	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1
PCB-1254	25.5	U	55.4	25.5	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1
PCB-1260	24.4	U	55.4	24.4	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1
Polychlorinated biphenyls, Total	73.6		55.4	34.4	ug/Kg	☼	07/09/18 08:19	07/10/18 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		14 - 128	07/09/18 08:19	07/10/18 21:01	1
DCB Decachlorobiphenyl	63		10 - 132	07/09/18 08:19	07/10/18 21:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.2		0.1	0.1	%			07/02/18 08:55	1
Percent Moisture	12.8		0.1	0.1	%			07/02/18 08:55	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.00-SL03-0.0-0.9

Lab Sample ID: 240-97885-16

Date Collected: 06/14/18 15:47

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 74.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	144	U	327	144	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5
PCB-1221	157	U	327	157	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5
PCB-1232	150	U	327	150	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5
PCB-1242	124	U	327	124	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5
PCB-1248	1260		327	157	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5
PCB-1254	150	U	327	150	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5
PCB-1260	144	U	327	144	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5
Polychlorinated biphenyls, Total	1260		327	203	ug/Kg	☼	07/09/18 07:37	07/11/18 12:58	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		14 - 128	07/09/18 07:37	07/11/18 12:58	5
DCB Decachlorobiphenyl	191	X	10 - 132	07/09/18 07:37	07/11/18 12:58	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	74.2		0.1	0.1	%			07/02/18 08:55	1
Percent Moisture	25.8		0.1	0.1	%			07/02/18 08:55	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.00-SL04-0.0-0.9

Lab Sample ID: 240-97885-17

Date Collected: 06/14/18 16:10

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 80.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.5	U	60.1	26.5	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1
PCB-1221	28.9	U	60.1	28.9	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1
PCB-1232	27.7	U	60.1	27.7	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1
PCB-1242	22.8	U	60.1	22.8	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1
PCB-1248	35.3	J	60.1	28.9	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1
PCB-1254	27.7	U	60.1	27.7	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1
PCB-1260	26.5	U	60.1	26.5	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1
Polychlorinated biphenyls, Total	37.3	U	60.1	37.3	ug/Kg	☼	07/09/18 08:19	07/10/18 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		14 - 128	07/09/18 08:19	07/10/18 22:00	1
DCB Decachlorobiphenyl	79	p	10 - 132	07/09/18 08:19	07/10/18 22:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.5		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	19.5		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.00-SL04-0.9-1.8

Lab Sample ID: 240-97885-18

Date Collected: 06/14/18 16:15

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 87.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.0	U	59.1	26.0	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1
PCB-1221	28.4	U	59.1	28.4	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1
PCB-1232	27.2	U	59.1	27.2	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1
PCB-1242	22.5	U	59.1	22.5	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1
PCB-1248	34.6	J	59.1	28.4	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1
PCB-1254	27.2	U	59.1	27.2	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1
PCB-1260	26.0	U	59.1	26.0	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1
Polychlorinated biphenyls, Total	36.6	U	59.1	36.6	ug/Kg	☼	07/09/18 08:19	07/10/18 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	58		14 - 128	07/09/18 08:19	07/10/18 22:19	1
DCB Decachlorobiphenyl	53	p	10 - 132	07/09/18 08:19	07/10/18 22:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.7		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	12.3		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.00-SL04-0.0-0.9-FD

Lab Sample ID: 240-97885-19

Date Collected: 06/14/18 16:10

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	24.5	U	55.8	24.5	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1
PCB-1221	26.8	U	55.8	26.8	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1
PCB-1232	25.7	U	55.8	25.7	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1
PCB-1242	21.2	U	55.8	21.2	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1
PCB-1248	29.2	J	55.8	26.8	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1
PCB-1254	25.7	U	55.8	25.7	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1
PCB-1260	24.5	U	55.8	24.5	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1
Polychlorinated biphenyls, Total	34.6	U	55.8	34.6	ug/Kg	☼	07/09/18 08:19	07/10/18 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		14 - 128	07/09/18 08:19	07/10/18 22:39	1
DCB Decachlorobiphenyl	70	p	10 - 132	07/09/18 08:19	07/10/18 22:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.9		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	13.1		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.00-SL04-1.8-2.7

Lab Sample ID: 240-97885-20

Date Collected: 06/14/18 16:19

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	29.1	U	66.1	29.1	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1
PCB-1221	31.7	U	66.1	31.7	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1
PCB-1232	30.4	U	66.1	30.4	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1
PCB-1242	25.1	U	66.1	25.1	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1
PCB-1248	31.7	U	66.1	31.7	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1
PCB-1254	30.4	U	66.1	30.4	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1
PCB-1260	29.1	U	66.1	29.1	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1
Polychlorinated biphenyls, Total	41.0	U	66.1	41.0	ug/Kg	☼	07/09/18 08:19	07/10/18 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	56		14 - 128	07/09/18 08:19	07/10/18 22:58	1
DCB Decachlorobiphenyl	55	p	10 - 132	07/09/18 08:19	07/10/18 22:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.2		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	22.8		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.17-SL02-0.0-0.8-FD

Lab Sample ID: 240-97885-22

Date Collected: 06/14/18 15:20

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 68.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1560	U	3550	1560	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50
PCB-1221	1710	U	3550	1710	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50
PCB-1232	1640	U	3550	1640	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50
PCB-1242	1350	U	3550	1350	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50
PCB-1248	60400		3550	1710	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50
PCB-1254	1640	U	3550	1640	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50
PCB-1260	1560	U	3550	1560	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50
Polychlorinated biphenyls, Total	60400		3550	2200	ug/Kg	☼	07/09/18 08:19	07/10/18 23:18	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	108		14 - 128	07/09/18 08:19	07/10/18 23:18	50
DCB Decachlorobiphenyl	203	p X	10 - 132	07/09/18 08:19	07/10/18 23:18	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	68.7		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	31.3		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.17-SL02-0.0-0.8

Lab Sample ID: 240-97885-23

Date Collected: 06/14/18 15:20

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	2590	U	5890	2590	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100
PCB-1221	2820	U	5890	2820	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100
PCB-1232	2710	U	5890	2710	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100
PCB-1242	2240	U	5890	2240	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100
PCB-1248	94200		5890	2820	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100
PCB-1254	2710	U	5890	2710	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100
PCB-1260	2590	U	5890	2590	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100
Polychlorinated biphenyls, Total	94200		5890	3650	ug/Kg	☼	07/09/18 08:19	07/10/18 23:37	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	111		14 - 128	07/09/18 08:19	07/10/18 23:37	100
DCB Decachlorobiphenyl	358	p X	10 - 132	07/09/18 08:19	07/10/18 23:37	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.6		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	16.4		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.17-SL02-0.8-1.8

Lab Sample ID: 240-97885-24

Date Collected: 06/14/18 15:22

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 85.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	127	U	289	127	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5
PCB-1221	139	U	289	139	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5
PCB-1232	133	U	289	133	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5
PCB-1242	110	U	289	110	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5
PCB-1248	3940		289	139	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5
PCB-1254	133	U	289	133	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5
PCB-1260	127	U	289	127	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5
Polychlorinated biphenyls, Total	3940		289	179	ug/Kg	☼	07/09/18 08:19	07/10/18 23:57	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		14 - 128	07/09/18 08:19	07/10/18 23:57	5
DCB Decachlorobiphenyl	111		10 - 132	07/09/18 08:19	07/10/18 23:57	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.9		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	14.1		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.17-SL02-1.8-2.8

Lab Sample ID: 240-97885-25

Date Collected: 06/14/18 15:24

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	28.8	U	65.5	28.8	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1
PCB-1221	31.5	U	65.5	31.5	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1
PCB-1232	30.1	U	65.5	30.1	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1
PCB-1242	24.9	U	65.5	24.9	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1
PCB-1248	31.5	U	65.5	31.5	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1
PCB-1254	30.1	U	65.5	30.1	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1
PCB-1260	28.8	U	65.5	28.8	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1
Polychlorinated biphenyls, Total	40.6	U	65.5	40.6	ug/Kg	☼	07/09/18 14:12	07/10/18 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	30		14 - 128	07/09/18 14:12	07/10/18 23:25	1
DCB Decachlorobiphenyl	43		10 - 132	07/09/18 14:12	07/10/18 23:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.2		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	22.8		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.41-SL01-0.0-0.5

Lab Sample ID: 240-97885-27

Date Collected: 06/14/18 10:03

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	590	U	1340	590	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20
PCB-1221	644	U	1340	644	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20
PCB-1232	617	U	1340	617	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20
PCB-1242	510	U	1340	510	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20
PCB-1248	19200		1340	644	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20
PCB-1254	617	U	1340	617	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20
PCB-1260	590	U	1340	590	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20
Polychlorinated biphenyls, Total	19200		1340	831	ug/Kg	☼	07/09/18 08:19	07/11/18 00:16	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		14 - 128	07/09/18 08:19	07/11/18 00:16	20
DCB Decachlorobiphenyl	103		10 - 132	07/09/18 08:19	07/11/18 00:16	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.4		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	22.6		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.41-SL01-1.0-1.5

Lab Sample ID: 240-97885-28

Date Collected: 06/14/18 10:06

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 85.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.8	U	58.7	25.8	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1
PCB-1221	28.2	U	58.7	28.2	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1
PCB-1232	27.0	U	58.7	27.0	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1
PCB-1242	22.3	U	58.7	22.3	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1
PCB-1248	454		58.7	28.2	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1
PCB-1254	27.0	U	58.7	27.0	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1
PCB-1260	25.8	U	58.7	25.8	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1
Polychlorinated biphenyls, Total	454		58.7	36.4	ug/Kg	☼	07/09/18 08:19	07/11/18 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		14 - 128	07/09/18 08:19	07/11/18 00:36	1
DCB Decachlorobiphenyl	64		10 - 132	07/09/18 08:19	07/11/18 00:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.6		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	14.4		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.41-SL01-1.5-2.0

Lab Sample ID: 240-97885-29

Date Collected: 06/14/18 10:08

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.6	U	62.8	27.6	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1
PCB-1221	30.1	U	62.8	30.1	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1
PCB-1232	28.9	U	62.8	28.9	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1
PCB-1242	23.8	U	62.8	23.8	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1
PCB-1248	39.2	J p	62.8	30.1	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1
PCB-1254	28.9	U	62.8	28.9	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1
PCB-1260	27.6	U	62.8	27.6	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1
Polychlorinated biphenyls, Total	39.2	J	62.8	38.9	ug/Kg	☼	07/09/18 08:19	07/11/18 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	92		14 - 128	07/09/18 08:19	07/11/18 00:55	1
DCB Decachlorobiphenyl	84		10 - 132	07/09/18 08:19	07/11/18 00:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.1		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	22.9		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.41-SL01-1.5-2.0-FD

Lab Sample ID: 240-97885-30

Date Collected: 06/14/18 10:08

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.6	U	60.5	26.6	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1
PCB-1221	29.0	U	60.5	29.0	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1
PCB-1232	27.8	U	60.5	27.8	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1
PCB-1242	23.0	U	60.5	23.0	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1
PCB-1248	41.0	J	60.5	29.0	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1
PCB-1254	27.8	U	60.5	27.8	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1
PCB-1260	26.6	U	60.5	26.6	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1
Polychlorinated biphenyls, Total	41.0	J	60.5	37.5	ug/Kg	☼	07/09/18 08:19	07/11/18 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		14 - 128	07/09/18 08:19	07/11/18 01:15	1
DCB Decachlorobiphenyl	77	p	10 - 132	07/09/18 08:19	07/11/18 01:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.8		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	15.2		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.19-SL01-1.8-2.3

Lab Sample ID: 240-97885-34

Date Collected: 06/14/18 14:48

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	124	U	281	124	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5
PCB-1221	135	U	281	135	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5
PCB-1232	129	U	281	129	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5
PCB-1242	107	U	281	107	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5
PCB-1248	1690		281	135	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5
PCB-1254	129	U	281	129	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5
PCB-1260	124	U	281	124	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5
Polychlorinated biphenyls, Total	1690		281	174	ug/Kg	☼	07/09/18 14:12	07/11/18 03:39	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		14 - 128	07/09/18 14:12	07/11/18 03:39	5
DCB Decachlorobiphenyl	863	X	10 - 132	07/09/18 14:12	07/11/18 03:39	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.5		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	13.5		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.19-SL01-1.5-1.8

Lab Sample ID: 240-97885-35

Date Collected: 06/14/18 14:46

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 82.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	137	U	310	137	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5
PCB-1221	149	U	310	149	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5
PCB-1232	143	U	310	143	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5
PCB-1242	118	U	310	118	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5
PCB-1248	1580		310	149	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5
PCB-1254	143	U	310	143	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5
PCB-1260	137	U	310	137	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5
Polychlorinated biphenyls, Total	1580		310	193	ug/Kg	☼	07/06/18 07:48	07/08/18 22:17	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		14 - 128	07/06/18 07:48	07/08/18 22:17	5
DCB Decachlorobiphenyl	93	p	10 - 132	07/06/18 07:48	07/08/18 22:17	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.8		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	17.2		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.19-SL01-0.0-0.8

Lab Sample ID: 240-97885-36

Date Collected: 06/14/18 04:40

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	126	U	286	126	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5
PCB-1221	137	U	286	137	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5
PCB-1232	132	U	286	132	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5
PCB-1242	109	U	286	109	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5
PCB-1248	1500		286	137	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5
PCB-1254	132	U	286	132	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5
PCB-1260	126	U	286	126	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5
Polychlorinated biphenyls, Total	1500		286	177	ug/Kg	☼	07/06/18 07:48	07/08/18 22:34	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	07/06/18 07:48	07/08/18 22:34	5
DCB Decachlorobiphenyl	213	X	10 - 132	07/06/18 07:48	07/08/18 22:34	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.2		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	15.8		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.19-SL01-0.8-1.5

Lab Sample ID: 240-97885-37

Date Collected: 06/14/18 14:42

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.0	U	61.4	27.0	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1
PCB-1221	29.5	U	61.4	29.5	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1
PCB-1232	28.2	U	61.4	28.2	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1
PCB-1242	23.3	U	61.4	23.3	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1
PCB-1248	182		61.4	29.5	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1
PCB-1254	28.2	U	61.4	28.2	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1
PCB-1260	27.0	U	61.4	27.0	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1
Polychlorinated biphenyls, Total	182		61.4	38.1	ug/Kg	☼	07/06/18 07:48	07/08/18 22:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		14 - 128	07/06/18 07:48	07/08/18 22:51	1
DCB Decachlorobiphenyl	125		10 - 132	07/06/18 07:48	07/08/18 22:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.1		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	15.9		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.19-SL01-0.8-1.5-FD

Lab Sample ID: 240-97885-38

Date Collected: 06/14/18 14:42

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.7	U	60.8	26.7	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1
PCB-1221	29.2	U	60.8	29.2	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1
PCB-1232	28.0	U	60.8	28.0	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1
PCB-1242	23.1	U	60.8	23.1	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1
PCB-1248	170		60.8	29.2	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1
PCB-1254	28.0	U	60.8	28.0	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1
PCB-1260	26.7	U	60.8	26.7	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1
Polychlorinated biphenyls, Total	170		60.8	37.7	ug/Kg	☼	07/06/18 07:48	07/08/18 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	07/06/18 07:48	07/08/18 23:08	1
DCB Decachlorobiphenyl	94		10 - 132	07/06/18 07:48	07/08/18 23:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.9		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	16.1		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.21-SL01-0.0-1.0

Lab Sample ID: 240-97885-41

Date Collected: 06/14/18 14:56

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.2	U	61.7	27.2	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1
PCB-1221	29.6	U	61.7	29.6	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1
PCB-1232	28.4	U	61.7	28.4	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1
PCB-1242	23.4	U	61.7	23.4	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1
PCB-1248	826		61.7	29.6	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1
PCB-1254	28.4	U	61.7	28.4	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1
PCB-1260	27.2	U	61.7	27.2	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1
Polychlorinated biphenyls, Total	826		61.7	38.3	ug/Kg	☼	07/06/18 07:48	07/08/18 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	07/06/18 07:48	07/08/18 23:25	1
DCB Decachlorobiphenyl	95		10 - 132	07/06/18 07:48	07/08/18 23:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.5		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	15.5		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.21-SL01-1.0-2.0

Lab Sample ID: 240-97885-42

Date Collected: 06/14/18 14:58

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 85.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.1	U	57.1	25.1	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1
PCB-1221	27.4	U	57.1	27.4	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1
PCB-1232	26.3	U	57.1	26.3	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1
PCB-1242	21.7	U	57.1	21.7	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1
PCB-1248	27.4	U	57.1	27.4	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1
PCB-1254	26.3	U	57.1	26.3	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1
PCB-1260	25.1	U	57.1	25.1	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1
Polychlorinated biphenyls, Total	35.4	U	57.1	35.4	ug/Kg	☼	07/06/18 10:36	07/10/18 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	07/06/18 10:36	07/10/18 14:11	1
DCB Decachlorobiphenyl	69		10 - 132	07/06/18 10:36	07/10/18 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.7		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	14.3		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.21-SL01-1.0-2.0-FD

Lab Sample ID: 240-97885-43

Date Collected: 06/14/18 14:58

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.9	U	58.8	25.9	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1
PCB-1221	28.2	U	58.8	28.2	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1
PCB-1232	27.1	U	58.8	27.1	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1
PCB-1242	22.4	U	58.8	22.4	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1
PCB-1248	28.2	U	58.8	28.2	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1
PCB-1254	27.1	U	58.8	27.1	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1
PCB-1260	25.9	U	58.8	25.9	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1
Polychlorinated biphenyls, Total	36.5	U	58.8	36.5	ug/Kg	☼	07/06/18 10:36	07/10/18 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	07/06/18 10:36	07/10/18 14:30	1
DCB Decachlorobiphenyl	72		10 - 132	07/06/18 10:36	07/10/18 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.4		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	16.6		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.27-SL01-0.0-1.0

Lab Sample ID: 240-97885-46

Date Collected: 06/14/18 13:39

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 70.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1600	U	3640	1600	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50
PCB-1221	1750	U	3640	1750	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50
PCB-1232	1670	U	3640	1670	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50
PCB-1242	1380	U	3640	1380	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50
PCB-1248	25500		3640	1750	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50
PCB-1254	1670	U	3640	1670	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50
PCB-1260	1600	U	3640	1600	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50
Polychlorinated biphenyls, Total	25500		3640	2260	ug/Kg	☼	07/06/18 10:36	07/10/18 14:50	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		14 - 128	07/06/18 10:36	07/10/18 14:50	50
DCB Decachlorobiphenyl	1369	p X	10 - 132	07/06/18 10:36	07/10/18 14:50	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	70.1		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	29.9		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.27-SL01-1.0-1.9

Lab Sample ID: 240-97885-47

Date Collected: 06/14/18 13:41

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 81.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.6	U	62.7	27.6	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1
PCB-1221	30.1	U	62.7	30.1	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1
PCB-1232	28.8	U	62.7	28.8	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1
PCB-1242	23.8	U	62.7	23.8	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1
PCB-1248	127		62.7	30.1	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1
PCB-1254	28.8	U	62.7	28.8	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1
PCB-1260	27.6	U	62.7	27.6	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1
Polychlorinated biphenyls, Total	127		62.7	38.9	ug/Kg	☼	07/06/18 10:40	07/10/18 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		14 - 128	07/06/18 10:40	07/10/18 15:09	1
DCB Decachlorobiphenyl	92	p	10 - 132	07/06/18 10:40	07/10/18 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.0		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	19.0		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.27-SL01-1.9-2.8

Lab Sample ID: 240-97885-48

Date Collected: 06/14/18 13:43

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 79.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	28.2	U	64.2	28.2	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1
PCB-1221	30.8	U	64.2	30.8	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1
PCB-1232	29.5	U	64.2	29.5	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1
PCB-1242	24.4	U	64.2	24.4	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1
PCB-1248	30.8	U	64.2	30.8	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1
PCB-1254	29.5	U	64.2	29.5	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1
PCB-1260	28.2	U	64.2	28.2	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1
Polychlorinated biphenyls, Total	39.8	U	64.2	39.8	ug/Kg	☼	07/06/18 10:40	07/10/18 11:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		14 - 128	07/06/18 10:40	07/10/18 11:15	1
DCB Decachlorobiphenyl	59		10 - 132	07/06/18 10:40	07/10/18 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.2		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	20.8		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.23-SL01-0.7-1.2

Lab Sample ID: 240-97885-50

Date Collected: 06/14/18 12:55

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.5	U	60.3	26.5	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1
PCB-1221	28.9	U	60.3	28.9	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1
PCB-1232	27.7	U	60.3	27.7	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1
PCB-1242	22.9	U	60.3	22.9	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1
PCB-1248	28.9	U	60.3	28.9	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1
PCB-1254	27.7	U	60.3	27.7	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1
PCB-1260	26.5	U	60.3	26.5	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1
Polychlorinated biphenyls, Total	37.4	U	60.3	37.4	ug/Kg	☼	07/06/18 11:08	07/10/18 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		14 - 128	07/06/18 11:08	07/10/18 16:47	1
DCB Decachlorobiphenyl	63	p	10 - 132	07/06/18 11:08	07/10/18 16:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.0		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	14.0		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.23-SL01-0.7-1.2-FD

Lab Sample ID: 240-97885-51

Date Collected: 06/14/18 12:55

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.7	U	58.5	25.7	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1
PCB-1221	28.1	U	58.5	28.1	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1
PCB-1232	26.9	U	58.5	26.9	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1
PCB-1242	22.2	U	58.5	22.2	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1
PCB-1248	32.0	J	58.5	28.1	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1
PCB-1254	26.9	U	58.5	26.9	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1
PCB-1260	25.7	U	58.5	25.7	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1
Polychlorinated biphenyls, Total	36.2	U	58.5	36.2	ug/Kg	☼	07/06/18 11:08	07/10/18 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		14 - 128	07/06/18 11:08	07/10/18 17:07	1
DCB Decachlorobiphenyl	74		10 - 132	07/06/18 11:08	07/10/18 17:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.5		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	15.5		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-01.14-SL04-0.5-1.0

Lab Sample ID: 240-97885-56

Date Collected: 06/15/18 18:33

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 78.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.3	U	62.0	27.3	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1
PCB-1221	29.8	U	62.0	29.8	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1
PCB-1232	28.5	U	62.0	28.5	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1
PCB-1242	23.6	U	62.0	23.6	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1
PCB-1248	729	p	62.0	29.8	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1
PCB-1254	28.5	U	62.0	28.5	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1
PCB-1260	27.3	U	62.0	27.3	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1
Polychlorinated biphenyls, Total	729		62.0	38.5	ug/Kg	☼	07/06/18 11:08	07/10/18 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	53	p	14 - 128	07/06/18 11:08	07/10/18 17:26	1
DCB Decachlorobiphenyl	93	p	10 - 132	07/06/18 11:08	07/10/18 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.0		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	22.0		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-01.14-SL04-1.5-1.8

Lab Sample ID: 240-97885-57

Date Collected: 06/15/18 18:40

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 75.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	28.1	U	63.8	28.1	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1
PCB-1221	30.6	U	63.8	30.6	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1
PCB-1232	29.3	U	63.8	29.3	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1
PCB-1242	24.2	U	63.8	24.2	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1
PCB-1248	1080		63.8	30.6	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1
PCB-1254	29.3	U	63.8	29.3	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1
PCB-1260	28.1	U	63.8	28.1	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1
Polychlorinated biphenyls, Total	1080		63.8	39.5	ug/Kg	☼	07/09/18 08:19	07/11/18 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	56		14 - 128	07/09/18 08:19	07/11/18 01:35	1
DCB Decachlorobiphenyl	53	p	10 - 132	07/09/18 08:19	07/11/18 01:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	75.2		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	24.8		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-01.14-SL04-1.0-1.5

Lab Sample ID: 240-97885-58

Date Collected: 06/15/18 18:35

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.7	U	60.7	26.7	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1
PCB-1221	29.1	U	60.7	29.1	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1
PCB-1232	27.9	U	60.7	27.9	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1
PCB-1242	23.1	U	60.7	23.1	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1
PCB-1248	768		60.7	29.1	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1
PCB-1254	27.9	U	60.7	27.9	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1
PCB-1260	26.7	U	60.7	26.7	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1
Polychlorinated biphenyls, Total	768		60.7	37.6	ug/Kg	☼	07/09/18 08:19	07/11/18 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		14 - 128	07/09/18 08:19	07/11/18 02:53	1
DCB Decachlorobiphenyl	72		10 - 132	07/09/18 08:19	07/11/18 02:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.2		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	16.8		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-01.14-SL04-0.0-0.5

Lab Sample ID: 240-97885-59

Date Collected: 06/15/18 18:30

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 75.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	146	U	331	146	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5
PCB-1221	159	U	331	159	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5
PCB-1232	152	U	331	152	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5
PCB-1242	126	U	331	126	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5
PCB-1248	2460		331	159	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5
PCB-1254	152	U	331	152	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5
PCB-1260	146	U	331	146	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5
Polychlorinated biphenyls, Total	2460		331	205	ug/Kg	☼	07/09/18 08:19	07/11/18 03:12	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		14 - 128	07/09/18 08:19	07/11/18 03:12	5
DCB Decachlorobiphenyl	98		10 - 132	07/09/18 08:19	07/11/18 03:12	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	75.7		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	24.3		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.36-SL01-0.4-1.0

Lab Sample ID: 240-97885-60

Date Collected: 06/14/18 10:58

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 81.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	28.0	U	63.5	28.0	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1
PCB-1221	30.5	U	63.5	30.5	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1
PCB-1232	29.2	U	63.5	29.2	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1
PCB-1242	24.1	U	63.5	24.1	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1
PCB-1248	30.5	U	63.5	30.5	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1
PCB-1254	29.2	U	63.5	29.2	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1
PCB-1260	28.0	U	63.5	28.0	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1
Polychlorinated biphenyls, Total	39.4	U	63.5	39.4	ug/Kg	☼	07/09/18 08:19	07/11/18 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		14 - 128	07/09/18 08:19	07/11/18 03:32	1
DCB Decachlorobiphenyl	69	p	10 - 132	07/09/18 08:19	07/11/18 03:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.8		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	18.2		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.00-SL03-0.9-1.7

Lab Sample ID: 240-97885-61

Date Collected: 06/14/18 15:50

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 82.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.4	U	57.8	25.4	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1
PCB-1221	27.8	U	57.8	27.8	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1
PCB-1232	26.6	U	57.8	26.6	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1
PCB-1242	22.0	U	57.8	22.0	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1
PCB-1248	141		57.8	27.8	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1
PCB-1254	26.6	U	57.8	26.6	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1
PCB-1260	25.4	U	57.8	25.4	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1
Polychlorinated biphenyls, Total	141		57.8	35.8	ug/Kg	☼	07/09/18 08:19	07/11/18 03:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	55		14 - 128	07/09/18 08:19	07/11/18 03:51	1
DCB Decachlorobiphenyl	56		10 - 132	07/09/18 08:19	07/11/18 03:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.9		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	17.1		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.36-SL01-0.0-0.4

Lab Sample ID: 240-97885-62

Date Collected: 06/14/18 10:50

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 96.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	22.9	U	52.1	22.9	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1
PCB-1221	25.0	U	52.1	25.0	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1
PCB-1232	24.0	U	52.1	24.0	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1
PCB-1242	19.8	U	52.1	19.8	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1
PCB-1248	368		52.1	25.0	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1
PCB-1254	24.0	U	52.1	24.0	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1
PCB-1260	22.9	U	52.1	22.9	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1
Polychlorinated biphenyls, Total	368		52.1	32.3	ug/Kg	☼	07/09/18 08:19	07/11/18 04:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	07/09/18 08:19	07/11/18 04:11	1
DCB Decachlorobiphenyl	75	p	10 - 132	07/09/18 08:19	07/11/18 04:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.4		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	3.6		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.36-SL01-1.5-2.0

Lab Sample ID: 240-97885-65

Date Collected: 06/14/18 10:50

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.8	U	58.7	25.8	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1
PCB-1221	28.2	U	58.7	28.2	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1
PCB-1232	27.0	U	58.7	27.0	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1
PCB-1242	22.3	U	58.7	22.3	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1
PCB-1248	28.2	U	58.7	28.2	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1
PCB-1254	27.0	U	58.7	27.0	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1
PCB-1260	25.8	U	58.7	25.8	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1
Polychlorinated biphenyls, Total	36.4	U	58.7	36.4	ug/Kg	☼	07/06/18 14:06	07/10/18 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		14 - 128	07/06/18 14:06	07/10/18 13:44	1
DCB Decachlorobiphenyl	78		10 - 132	07/06/18 14:06	07/10/18 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.9		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	13.1		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.41-SL01-0.5-1.0

Lab Sample ID: 240-97885-66

Date Collected: 06/14/18 10:05

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 87.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	50.9	U	116	50.9	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2
PCB-1221	55.5	U	116	55.5	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2
PCB-1232	53.2	U	116	53.2	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2
PCB-1242	44.0	U	116	44.0	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2
PCB-1248	1980		116	55.5	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2
PCB-1254	53.2	U	116	53.2	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2
PCB-1260	50.9	U	116	50.9	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2
Polychlorinated biphenyls, Total	1980		116	71.7	ug/Kg	☼	07/09/18 08:19	07/11/18 04:30	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		14 - 128	07/09/18 08:19	07/11/18 04:30	2
DCB Decachlorobiphenyl	71		10 - 132	07/09/18 08:19	07/11/18 04:30	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.9		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	12.1		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.36-SL01-1.5-2.0-FD

Lab Sample ID: 240-97885-68

Date Collected: 06/14/18 10:50

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.9	U	58.8	25.9	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1
PCB-1221	28.2	U	58.8	28.2	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1
PCB-1232	27.1	U	58.8	27.1	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1
PCB-1242	22.3	U	58.8	22.3	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1
PCB-1248	28.2	U	58.8	28.2	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1
PCB-1254	27.1	U	58.8	27.1	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1
PCB-1260	25.9	U	58.8	25.9	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1
Polychlorinated biphenyls, Total	36.5	U	58.8	36.5	ug/Kg	☼	07/09/18 08:19	07/11/18 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		14 - 128	07/09/18 08:19	07/11/18 04:50	1
DCB Decachlorobiphenyl	56	p	10 - 132	07/09/18 08:19	07/11/18 04:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.5		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	15.5		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.36-SL01-0.4-1.0

Lab Sample ID: 240-97885-69

Date Collected: 06/14/18 10:55

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 80.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	28.0	U	63.6	28.0	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1
PCB-1221	30.6	U	63.6	30.6	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1
PCB-1232	29.3	U	63.6	29.3	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1
PCB-1242	24.2	U	63.6	24.2	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1
PCB-1248	30.6	U	63.6	30.6	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1
PCB-1254	29.3	U	63.6	29.3	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1
PCB-1260	28.0	U	63.6	28.0	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1
Polychlorinated biphenyls, Total	39.5	U	63.6	39.5	ug/Kg	☼	07/09/18 14:12	07/11/18 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		14 - 128	07/09/18 14:12	07/11/18 01:08	1
DCB Decachlorobiphenyl	98		10 - 132	07/09/18 14:12	07/11/18 01:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.4		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	19.6		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.19-SL01-1.8-2.3

Lab Sample ID: 240-97885-70

Date Collected: 06/14/18 14:48

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 88.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	51.1	U	116	51.1	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2
PCB-1221	55.7	U	116	55.7	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2
PCB-1232	53.4	U	116	53.4	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2
PCB-1242	44.1	U	116	44.1	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2
PCB-1248	1780		116	55.7	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2
PCB-1254	53.4	U	116	53.4	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2
PCB-1260	51.1	U	116	51.1	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2
Polychlorinated biphenyls, Total	1780		116	71.9	ug/Kg	☼	07/09/18 14:12	07/11/18 01:24	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128	07/09/18 14:12	07/11/18 01:24	2
DCB Decachlorobiphenyl	109		10 - 132	07/09/18 14:12	07/11/18 01:24	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.1		0.1	0.1	%			07/02/18 15:32	1
Percent Moisture	11.9		0.1	0.1	%			07/02/18 15:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.29-SL01-1.7-2.7

Lab Sample ID: 240-97885-74

Date Collected: 06/14/18 13:36

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 70.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	30.1	U	68.4	30.1	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1
PCB-1221	32.8	U	68.4	32.8	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1
PCB-1232	31.4	U	68.4	31.4	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1
PCB-1242	26.0	U	68.4	26.0	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1
PCB-1248	66.8	J	68.4	32.8	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1
PCB-1254	31.4	U	68.4	31.4	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1
PCB-1260	30.1	U	68.4	30.1	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1
Polychlorinated biphenyls, Total	66.8	J	68.4	42.4	ug/Kg	☼	07/09/18 14:12	07/11/18 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		14 - 128	07/09/18 14:12	07/11/18 01:41	1
DCB Decachlorobiphenyl	339	X	10 - 132	07/09/18 14:12	07/11/18 01:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	70.1		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	29.9		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.44-SL01-0.0-0.5

Lab Sample ID: 240-97885-77

Date Collected: 06/14/18 11:20

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 95.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	23.5	U	53.4	23.5	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1
PCB-1221	25.6	U	53.4	25.6	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1
PCB-1232	24.6	U	53.4	24.6	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1
PCB-1242	20.3	U	53.4	20.3	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1
PCB-1248	340		53.4	25.6	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1
PCB-1254	24.6	U	53.4	24.6	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1
PCB-1260	23.5	U	53.4	23.5	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1
Polychlorinated biphenyls, Total	340		53.4	33.1	ug/Kg	☼	07/09/18 14:12	07/11/18 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		14 - 128	07/09/18 14:12	07/11/18 01:58	1
DCB Decachlorobiphenyl	193	X	10 - 132	07/09/18 14:12	07/11/18 01:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.9		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	4.1		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.44-SL01-0.5-1.0

Lab Sample ID: 240-97885-78

Date Collected: 06/14/18 11:22

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 95.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	23.4	U	53.1	23.4	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1
PCB-1221	25.5	U	53.1	25.5	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1
PCB-1232	24.4	U	53.1	24.4	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1
PCB-1242	20.2	U	53.1	20.2	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1
PCB-1248	405		53.1	25.5	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1
PCB-1254	24.4	U	53.1	24.4	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1
PCB-1260	23.4	U	53.1	23.4	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1
Polychlorinated biphenyls, Total	405		53.1	32.9	ug/Kg	☼	07/09/18 14:12	07/11/18 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		14 - 128	07/09/18 14:12	07/11/18 02:14	1
DCB Decachlorobiphenyl	309	X	10 - 132	07/09/18 14:12	07/11/18 02:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.4		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	4.6		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.44-SL01-1.0-1.5

Lab Sample ID: 240-97885-79

Date Collected: 06/14/18 11:27

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 94.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	24.1	U	54.8	24.1	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1
PCB-1221	26.3	U	54.8	26.3	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1
PCB-1232	25.2	U	54.8	25.2	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1
PCB-1242	20.8	U	54.8	20.8	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1
PCB-1248	448		54.8	26.3	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1
PCB-1254	25.2	U	54.8	25.2	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1
PCB-1260	24.1	U	54.8	24.1	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1
Polychlorinated biphenyls, Total	448		54.8	34.0	ug/Kg	☼	07/09/18 14:12	07/11/18 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	50		14 - 128	07/09/18 14:12	07/11/18 02:32	1
DCB Decachlorobiphenyl	174	X	10 - 132	07/09/18 14:12	07/11/18 02:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.3		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	5.7		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.44-SL01-1.5-1.8

Lab Sample ID: 240-97885-80

Date Collected: 06/14/18 11:34

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 89.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	23.9	U	54.4	23.9	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1
PCB-1221	26.1	U	54.4	26.1	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1
PCB-1232	25.0	U	54.4	25.0	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1
PCB-1242	20.7	U	54.4	20.7	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1
PCB-1248	30.2	J p	54.4	26.1	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1
PCB-1254	25.0	U	54.4	25.0	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1
PCB-1260	23.9	U	54.4	23.9	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1
Polychlorinated biphenyls, Total	94.4		54.4	33.7	ug/Kg	☼	07/09/18 14:12	07/11/18 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60		14 - 128	07/09/18 14:12	07/11/18 02:49	1
Tetrachloro-m-xylene	59		14 - 128	07/09/18 14:12	07/11/18 02:49	1
DCB Decachlorobiphenyl	114	p	10 - 132	07/09/18 14:12	07/11/18 02:49	1
DCB Decachlorobiphenyl	277	X	10 - 132	07/09/18 14:12	07/11/18 02:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.1		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	10.9		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.44-SL01-1.8-2.0

Lab Sample ID: 240-97885-81

Date Collected: 06/14/18 11:40

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 89.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.6	U	58.1	25.6	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1
PCB-1221	27.9	U	58.1	27.9	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1
PCB-1232	26.7	U	58.1	26.7	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1
PCB-1242	22.1	U	58.1	22.1	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1
PCB-1248	142	p	58.1	27.9	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1
PCB-1254	26.7	U	58.1	26.7	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1
PCB-1260	25.6	U	58.1	25.6	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1
Polychlorinated biphenyls, Total	287		58.1	36.1	ug/Kg	☼	07/09/18 14:12	07/11/18 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	52		14 - 128	07/09/18 14:12	07/11/18 03:05	1
Tetrachloro-m-xylene	51		14 - 128	07/09/18 14:12	07/11/18 03:05	1
DCB Decachlorobiphenyl	169	X	10 - 132	07/09/18 14:12	07/11/18 03:05	1
DCB Decachlorobiphenyl	194	X	10 - 132	07/09/18 14:12	07/11/18 03:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.2		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	10.8		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-01.14-SL06-0.0-0.5

Lab Sample ID: 240-97885-85

Date Collected: 06/13/18 13:56

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 78.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	29.0	U	65.8	29.0	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1
PCB-1221	31.6	U	65.8	31.6	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1
PCB-1232	30.3	U	65.8	30.3	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1
PCB-1242	25.0	U	65.8	25.0	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1
PCB-1248	1180		65.8	31.6	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1
PCB-1254	30.3	U	65.8	30.3	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1
PCB-1260	387		65.8	29.0	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1
Polychlorinated biphenyls, Total	1570		65.8	40.8	ug/Kg	☼	07/06/18 14:06	07/10/18 07:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	07/06/18 14:06	07/10/18 07:22	1
DCB Decachlorobiphenyl	78		10 - 132	07/06/18 14:06	07/10/18 07:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.5		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	21.5		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-01.14-SL06-0.5-1.0

Lab Sample ID: 240-97885-86

Date Collected: 06/13/18 13:58

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.3	U	62.1	27.3	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1
PCB-1221	29.8	U	62.1	29.8	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1
PCB-1232	28.5	U	62.1	28.5	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1
PCB-1242	23.6	U	62.1	23.6	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1
PCB-1248	319		62.1	29.8	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1
PCB-1254	28.5	U	62.1	28.5	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1
PCB-1260	113		62.1	27.3	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1
Polychlorinated biphenyls, Total	432		62.1	38.5	ug/Kg	☼	07/06/18 14:06	07/10/18 07:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		14 - 128	07/06/18 14:06	07/10/18 07:39	1
DCB Decachlorobiphenyl	70		10 - 132	07/06/18 14:06	07/10/18 07:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.1		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	16.9		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-01.14-SL06-1.0-1.5

Lab Sample ID: 240-97885-87

Date Collected: 06/13/18 14:12

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 79.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	28.2	U	64.2	28.2	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1
PCB-1221	30.8	U	64.2	30.8	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1
PCB-1232	29.5	U	64.2	29.5	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1
PCB-1242	24.4	U	64.2	24.4	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1
PCB-1248	221		64.2	30.8	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1
PCB-1254	29.5	U	64.2	29.5	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1
PCB-1260	61.5	J	64.2	28.2	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1
Polychlorinated biphenyls, Total	283		64.2	39.8	ug/Kg	☼	07/06/18 14:06	07/10/18 07:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		14 - 128	07/06/18 14:06	07/10/18 07:56	1
DCB Decachlorobiphenyl	61		10 - 132	07/06/18 14:06	07/10/18 07:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.9		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	20.1		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.31-SL01-0.0-1.0

Lab Sample ID: 240-97885-89

Date Collected: 06/14/18 12:13

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 79.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	572	U	1300	572	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20
PCB-1221	624	U	1300	624	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20
PCB-1232	598	U	1300	598	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20
PCB-1242	494	U	1300	494	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20
PCB-1248	22400		1300	624	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20
PCB-1254	598	U	1300	598	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20
PCB-1260	572	U	1300	572	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20
Polychlorinated biphenyls, Total	22400		1300	806	ug/Kg	☼	07/06/18 14:06	07/10/18 08:31	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76	p	14 - 128	07/06/18 14:06	07/10/18 08:31	20
DCB Decachlorobiphenyl	71		10 - 132	07/06/18 14:06	07/10/18 08:31	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.2		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	20.8		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.31-SL01-1.0-2.0

Lab Sample ID: 240-97885-90

Date Collected: 06/14/18 12:15

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 87.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.5	U	57.9	25.5	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1
PCB-1221	27.8	U	57.9	27.8	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1
PCB-1232	26.6	U	57.9	26.6	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1
PCB-1242	22.0	U	57.9	22.0	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1
PCB-1248	372		57.9	27.8	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1
PCB-1254	26.6	U	57.9	26.6	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1
PCB-1260	25.5	U	57.9	25.5	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1
Polychlorinated biphenyls, Total	372		57.9	35.9	ug/Kg	☼	07/06/18 14:06	07/10/18 08:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		14 - 128	07/06/18 14:06	07/10/18 08:48	1
DCB Decachlorobiphenyl	70		10 - 132	07/06/18 14:06	07/10/18 08:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.0		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	13.0		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.33-SL01-0.0-0.7

Lab Sample ID: 240-97885-94

Date Collected: 06/14/18 12:20

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 78.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.8	U	63.2	27.8	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1
PCB-1221	30.4	U	63.2	30.4	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1
PCB-1232	29.1	U	63.2	29.1	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1
PCB-1242	24.0	U	63.2	24.0	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1
PCB-1248	976		63.2	30.4	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1
PCB-1254	29.1	U	63.2	29.1	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1
PCB-1260	166		63.2	27.8	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1
Polychlorinated biphenyls, Total	1140		63.2	39.2	ug/Kg	☼	07/06/18 14:06	07/10/18 09:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		14 - 128	07/06/18 14:06	07/10/18 09:06	1
DCB Decachlorobiphenyl	66		10 - 132	07/06/18 14:06	07/10/18 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.2		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	21.8		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.33-SL01-0.7-1.6

Lab Sample ID: 240-97885-95

Date Collected: 06/14/18 12:25

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 88.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	24.6	U	56.0	24.6	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1
PCB-1221	26.9	U	56.0	26.9	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1
PCB-1232	25.8	U	56.0	25.8	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1
PCB-1242	21.3	U	56.0	21.3	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1
PCB-1248	333		56.0	26.9	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1
PCB-1254	25.8	U	56.0	25.8	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1
PCB-1260	24.6	U	56.0	24.6	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1
Polychlorinated biphenyls, Total	333		56.0	34.7	ug/Kg	☼	07/06/18 14:06	07/10/18 09:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		14 - 128	07/06/18 14:06	07/10/18 09:23	1
DCB Decachlorobiphenyl	70		10 - 132	07/06/18 14:06	07/10/18 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.2		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	11.8		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.33-SL01-1.6-2.3

Lab Sample ID: 240-97885-96

Date Collected: 06/14/18 12:27

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26.1	U	59.3	26.1	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1
PCB-1221	28.4	U	59.3	28.4	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1
PCB-1232	27.3	U	59.3	27.3	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1
PCB-1242	22.5	U	59.3	22.5	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1
PCB-1248	28.4	U	59.3	28.4	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1
PCB-1254	27.3	U	59.3	27.3	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1
PCB-1260	26.1	U	59.3	26.1	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1
Polychlorinated biphenyls, Total	36.7	U	59.3	36.7	ug/Kg	☼	07/06/18 14:06	07/10/18 09:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	54		14 - 128	07/06/18 14:06	07/10/18 09:41	1
DCB Decachlorobiphenyl	66		10 - 132	07/06/18 14:06	07/10/18 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.5		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	13.5		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.23-SL01-0.0-0.7

Lab Sample ID: 240-97885-99

Date Collected: 06/14/18 12:51

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	273	U	620	273	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10
PCB-1221	298	U	620	298	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10
PCB-1232	285	U	620	285	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10
PCB-1242	236	U	620	236	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10
PCB-1248	11400		620	298	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10
PCB-1254	285	U	620	285	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10
PCB-1260	1260		620	273	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10
Polychlorinated biphenyls, Total	12700		620	385	ug/Kg	☼	07/06/18 14:06	07/10/18 11:25	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		14 - 128	07/06/18 14:06	07/10/18 11:25	10
DCB Decachlorobiphenyl	65	p	10 - 132	07/06/18 14:06	07/10/18 11:25	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.3		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	16.7		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.23-SL01-1.2-2.0

Lab Sample ID: 240-97885-100

Date Collected: 06/14/18 12:56

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	27.0	U	61.3	27.0	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1
PCB-1221	29.4	U	61.3	29.4	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1
PCB-1232	28.2	U	61.3	28.2	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1
PCB-1242	23.3	U	61.3	23.3	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1
PCB-1248	29.4	U	61.3	29.4	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1
PCB-1254	28.2	U	61.3	28.2	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1
PCB-1260	27.0	U	61.3	27.0	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1
Polychlorinated biphenyls, Total	38.0	U	61.3	38.0	ug/Kg	☼	07/06/18 14:06	07/10/18 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		14 - 128	07/06/18 14:06	07/10/18 11:42	1
DCB Decachlorobiphenyl	69		10 - 132	07/06/18 14:06	07/10/18 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.0		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	17.0		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.29-SL01-0.0-0.7

Lab Sample ID: 240-97885-103

Date Collected: 06/14/18 13:32

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	253	U	576	253	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10
PCB-1221	276	U	576	276	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10
PCB-1232	265	U	576	265	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10
PCB-1242	219	U	576	219	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10
PCB-1248	6460		576	276	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10
PCB-1254	265	U	576	265	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10
PCB-1260	253	U	576	253	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10
Polychlorinated biphenyls, Total	6460		576	357	ug/Kg	☼	07/06/18 14:06	07/10/18 12:00	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		14 - 128	07/06/18 14:06	07/10/18 12:00	10
DCB Decachlorobiphenyl	56		10 - 132	07/06/18 14:06	07/10/18 12:00	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.5		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	13.5		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.29-SL01-0.7-1.7

Lab Sample ID: 240-97885-104

Date Collected: 06/14/18 13:34

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 87.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	24.1	U	54.9	24.1	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1
PCB-1221	26.3	U	54.9	26.3	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1
PCB-1232	25.2	U	54.9	25.2	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1
PCB-1242	20.8	U	54.9	20.8	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1
PCB-1248	53.1	J	54.9	26.3	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1
PCB-1254	25.2	U	54.9	25.2	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1
PCB-1260	24.1	U	54.9	24.1	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1
Polychlorinated biphenyls, Total	53.1	J	54.9	34.0	ug/Kg	☼	07/06/18 14:06	07/10/18 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		14 - 128	07/06/18 14:06	07/10/18 12:17	1
DCB Decachlorobiphenyl	84		10 - 132	07/06/18 14:06	07/10/18 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.7		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	12.3		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.29-SL01-1.7-2.7-FD

Lab Sample ID: 240-97885-105

Date Collected: 06/14/18 13:36

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 74.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	28.7	U	65.3	28.7	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1
PCB-1221	31.3	U	65.3	31.3	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1
PCB-1232	30.0	U	65.3	30.0	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1
PCB-1242	24.8	U	65.3	24.8	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1
PCB-1248	45.2	J	65.3	31.3	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1
PCB-1254	30.0	U	65.3	30.0	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1
PCB-1260	28.7	U	65.3	28.7	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1
Polychlorinated biphenyls, Total	45.2	J	65.3	40.5	ug/Kg	☼	07/06/18 14:06	07/10/18 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		14 - 128	07/06/18 14:06	07/10/18 13:27	1
DCB Decachlorobiphenyl	77		10 - 132	07/06/18 14:06	07/10/18 13:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	74.3		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	25.7		0.1	0.1	%			07/02/18 15:45	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.36-SL01-1.0-1.5

Lab Sample ID: 240-97885-106

Date Collected: 06/14/18 10:51

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25.5	U	58.0	25.5	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1
PCB-1221	27.9	U	58.0	27.9	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1
PCB-1232	26.7	U	58.0	26.7	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1
PCB-1242	22.1	U	58.0	22.1	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1
PCB-1248	27.9	U	58.0	27.9	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1
PCB-1254	26.7	U	58.0	26.7	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1
PCB-1260	25.5	U	58.0	25.5	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1
Polychlorinated biphenyls, Total	36.0	U	58.0	36.0	ug/Kg	☼	07/06/18 14:06	07/10/18 08:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	07/06/18 14:06	07/10/18 08:14	1
DCB Decachlorobiphenyl	68		10 - 132	07/06/18 14:06	07/10/18 08:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.2		0.1	0.1	%			07/02/18 15:45	1
Percent Moisture	16.8		0.1	0.1	%			07/02/18 15:45	1

Surrogate Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

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 (14-128)	TCX2 (14-128)	DCBP1 (10-132)	DCBP2 (10-132)
240-97885-2	ED-00.51-SL06-1.0-2.0		72		73
240-97885-4	ED-01.14-SL01-0.5-1.0		60 p		57
240-97885-5	ED-01.14-SL01-1.0-1.5		62		67
240-97885-8	ED-01.14-SL05-0.0-0.5		85		79
240-97885-9	ED-01.14-SL05-0.5-1.0		78		67
240-97885-11	ED-01.14-SL05-1.0-1.5		88		90
240-97885-14	ED-00.00-SL03-1.7-2.5		71		70
240-97885-15	ED-00.00-SL03-0.9-1.7	64		63	
240-97885-15 MS	ED-00.00-SL03-0.9-1.7 MS	63		60	
240-97885-15 MSD	ED-00.00-SL03-0.9-1.7 MSD	78		70 p	
240-97885-16	ED-00.00-SL03-0.0-0.9		77		191 X
240-97885-17	ED-00.00-SL04-0.0-0.9	80		79 p	
240-97885-18	ED-00.00-SL04-0.9-1.8	58		53 p	
240-97885-19	ED-00.00-SL04-0.0-0.9-FD	79		70 p	
240-97885-20	ED-00.00-SL04-1.8-2.7	56		55 p	
240-97885-22	ED-00.17-SL02-0.0-0.8-FD	108		203 p X	
240-97885-23	ED-00.17-SL02-0.0-0.8	111		358 p X	
240-97885-24	ED-00.17-SL02-0.8-1.8	100		111	
240-97885-25	ED-00.17-SL02-1.8-2.8		30		43
240-97885-25 MS	ED-00.17-SL02-1.8-2.8 MS		71		113
240-97885-25 MSD	ED-00.17-SL02-1.8-2.8 MSD		56		161 X
240-97885-27	ED-00.41-SL01-0.0-0.5	88		103	
240-97885-28	ED-00.41-SL01-1.0-1.5	66		64	
240-97885-29	ED-00.41-SL01-1.5-2.0	92		84	
240-97885-30	ED-00.41-SL01-1.5-2.0-FD	86		77 p	
240-97885-34	ED-00.19-SL01-1.8-2.3		62		863 X
240-97885-34 MS	ED-00.19-SL01-1.8-2.3 MS		84		542 X
240-97885-34 MSD	ED-00.19-SL01-1.8-2.3 MSD		74		323 X
240-97885-35	ED-00.19-SL01-1.5-1.8	86		93 p	
240-97885-36	ED-00.19-SL01-0.0-0.8	76		213 X	
240-97885-37	ED-00.19-SL01-0.8-1.5	80		125	
240-97885-38	ED-00.19-SL01-0.8-1.5-FD	72		94	
240-97885-41	ED-00.21-SL01-0.0-1.0	73		95	
240-97885-42	ED-00.21-SL01-1.0-2.0	71		69	
240-97885-43	ED-00.21-SL01-1.0-2.0-FD	76		72	
240-97885-46	ED-00.27-SL01-0.0-1.0	91		1369 p X	
240-97885-47	ED-00.27-SL01-1.0-1.9	74		92 p	
240-97885-48	ED-00.27-SL01-1.9-2.8	64		59	
240-97885-50	ED-00.23-SL01-0.7-1.2	78		63 p	
240-97885-51	ED-00.23-SL01-0.7-1.2-FD	82		74	
240-97885-56	ED-01.14-SL04-0.5-1.0	53 p		93 p	
240-97885-57	ED-01.14-SL04-1.5-1.8	56		53 p	
240-97885-58	ED-01.14-SL04-1.0-1.5	70		72	
240-97885-59	ED-01.14-SL04-0.0-0.5	75		98	
240-97885-60	ED-00.36-SL01-0.4-1.0	84		69 p	
240-97885-61	ED-00.00-SL03-0.9-1.7	55		56	
240-97885-62	ED-00.36-SL01-0.0-0.4	73		75 p	
240-97885-65	ED-00.36-SL01-1.5-2.0		79		78
240-97885-65 MS	ED-00.36-SL01-1.5-2.0 MS		91		84

TestAmerica Canton

Surrogate Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

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 (14-128)	TCX2 (14-128)	DCBP1 (10-132)	DCBP2 (10-132)
240-97885-65 MSD	ED-00.36-SL01-1.5-2.0 MSD		90		76
240-97885-66	ED-00.41-SL01-0.5-1.0	74		71	
240-97885-68	ED-00.36-SL01-1.5-2.0-FD	62		56 p	
240-97885-69	ED-00.36-SL01-0.4-1.0		67		98
240-97885-70	ED-00.19-SL01-1.8-2.3		76		109
240-97885-74	ED-00.29-SL01-1.7-2.7		67		339 X
240-97885-77	ED-00.44-SL01-0.0-0.5		63		193 X
240-97885-78	ED-00.44-SL01-0.5-1.0		63		309 X
240-97885-79	ED-00.44-SL01-1.0-1.5		50		174 X
240-97885-80	ED-00.44-SL01-1.5-1.8	60	59	114 p	277 X
240-97885-81	ED-00.44-SL01-1.8-2.0	52	51	169 X	194 X
240-97885-85	ED-01.14-SL06-0.0-0.5		72		78
240-97885-86	ED-01.14-SL06-0.5-1.0		64		70
240-97885-87	ED-01.14-SL06-1.0-1.5		63		61
240-97885-89	ED-00.31-SL01-0.0-1.0		76 p		71
240-97885-90	ED-00.31-SL01-1.0-2.0		69		70
240-97885-94	ED-00.33-SL01-0.0-0.7		66		66
240-97885-95	ED-00.33-SL01-0.7-1.6		66		70
240-97885-96	ED-00.33-SL01-1.6-2.3		54		66
240-97885-99	ED-00.23-SL01-0.0-0.7		82		65 p
240-97885-100	ED-00.23-SL01-1.2-2.0		70		69
240-97885-103	ED-00.29-SL01-0.0-0.7		64		56
240-97885-104	ED-00.29-SL01-0.7-1.7		77		84
240-97885-105	ED-00.29-SL01-1.7-2.7-FD		81		77
240-97885-106	ED-00.36-SL01-1.0-1.5		71		68
LCS 240-334947/24-A	Lab Control Sample	64		80 p	
LCS 240-334984/10-A	Lab Control Sample	57		70	
LCS 240-335042/24-A	Lab Control Sample		83		91
LCS 240-335210/24-A	Lab Control Sample		59		87
LCS 240-335217/24-A	Lab Control Sample	70		72 p	
LCS 240-335309/17-A	Lab Control Sample		67		107
MB 240-334947/23-A	Method Blank	45		79 p	
MB 240-334984/9-A	Method Blank	65		78	
MB 240-335042/23-A	Method Blank		73		97
MB 240-335210/23-A	Method Blank		67		91
MB 240-335217/23-A	Method Blank	77		72 p	
MB 240-335309/16-A	Method Blank		71		127

Surrogate Legend

TCX = Tetrachloro-m-xylene
 DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-334947/23-A
Matrix: Solid
Analysis Batch: 335161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 334947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	22.0	U	50.0	22.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1
PCB-1221	24.0	U	50.0	24.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1
PCB-1232	23.0	U	50.0	23.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1
PCB-1242	19.0	U	50.0	19.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1
PCB-1248	24.0	U	50.0	24.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1
PCB-1254	23.0	U	50.0	23.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1
PCB-1260	22.0	U	50.0	22.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		07/06/18 07:48	07/08/18 23:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	45		14 - 128	07/06/18 07:48	07/08/18 23:41	1
DCB Decachlorobiphenyl	79	p	10 - 132	07/06/18 07:48	07/08/18 23:41	1

Lab Sample ID: LCS 240-334947/24-A
Matrix: Solid
Analysis Batch: 335161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 334947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1000	638.2		ug/Kg		64	47 - 120
PCB-1260	1000	781.8		ug/Kg		78	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	64		14 - 128
DCB Decachlorobiphenyl	80	p	10 - 132

Lab Sample ID: MB 240-334984/9-A
Matrix: Solid
Analysis Batch: 335385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 334984

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	22.0	U	50.0	22.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1
PCB-1221	24.0	U	50.0	24.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1
PCB-1232	23.0	U	50.0	23.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1
PCB-1242	19.0	U	50.0	19.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1
PCB-1248	24.0	U	50.0	24.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1
PCB-1254	23.0	U	50.0	23.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1
PCB-1260	22.0	U	50.0	22.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		07/06/18 10:36	07/10/18 12:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	65		14 - 128	07/06/18 10:36	07/10/18 12:33	1
DCB Decachlorobiphenyl	78		10 - 132	07/06/18 10:36	07/10/18 12:33	1

TestAmerica Canton

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-334984/10-A

Matrix: Solid

Analysis Batch: 335385

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 334984

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1000	617.7		ug/Kg		62	47 - 120
PCB-1260	1000	740.5		ug/Kg		74	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	57		14 - 128
DCB Decachlorobiphenyl	70		10 - 132

Lab Sample ID: MB 240-335042/23-A

Matrix: Solid

Analysis Batch: 335388

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 335042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	22.0	U	50.0	22.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1
PCB-1221	24.0	U	50.0	24.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1
PCB-1232	23.0	U	50.0	23.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1
PCB-1242	19.0	U	50.0	19.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1
PCB-1248	24.0	U	50.0	24.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1
PCB-1254	23.0	U	50.0	23.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1
PCB-1260	22.0	U	50.0	22.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		07/06/18 14:06	07/10/18 12:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128	07/06/18 14:06	07/10/18 12:35	1
DCB Decachlorobiphenyl	97		10 - 132	07/06/18 14:06	07/10/18 12:35	1

Lab Sample ID: LCS 240-335042/24-A

Matrix: Solid

Analysis Batch: 335388

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 335042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1000	745.9		ug/Kg		75	47 - 120
PCB-1260	1000	767.8		ug/Kg		77	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	83		14 - 128
DCB Decachlorobiphenyl	91		10 - 132

Lab Sample ID: 240-97885-65 MS

Matrix: Solid

Analysis Batch: 335388

Client Sample ID: ED-00.36-SL01-1.5-2.0 MS

Prep Type: Total/NA

Prep Batch: 335042

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
PCB-1016	25.8	U	1160	894.2		ug/Kg	☼	77	31 - 120
PCB-1260	25.8	U	1160	975.1		ug/Kg	☼	84	21 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	91		14 - 128

TestAmerica Canton

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 240-97885-65 MS
Matrix: Solid
Analysis Batch: 335388

Client Sample ID: ED-00.36-SL01-1.5-2.0 MS
Prep Type: Total/NA
Prep Batch: 335042

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	84		10 - 132

Lab Sample ID: 240-97885-65 MSD
Matrix: Solid
Analysis Batch: 335388

Client Sample ID: ED-00.36-SL01-1.5-2.0 MSD
Prep Type: Total/NA
Prep Batch: 335042

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
PCB-1016	25.8	U	1150	855.7		ug/Kg	☼	75	31 - 120	12	30
PCB-1260	25.8	U	1150	909.1		ug/Kg	☼	79	21 - 122	7	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	90		14 - 128
DCB Decachlorobiphenyl	76		10 - 132

Lab Sample ID: MB 240-335210/23-A
Matrix: Solid
Analysis Batch: 335576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335210

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	22.0	U	50.0	22.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1
PCB-1221	24.0	U	50.0	24.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1
PCB-1232	23.0	U	50.0	23.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1
PCB-1242	19.0	U	50.0	19.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1
PCB-1248	24.0	U	50.0	24.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1
PCB-1254	23.0	U	50.0	23.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1
PCB-1260	22.0	U	50.0	22.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		07/09/18 07:37	07/11/18 08:29	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	67		14 - 128	07/09/18 07:37	07/11/18 08:29	1
DCB Decachlorobiphenyl	91		10 - 132	07/09/18 07:37	07/11/18 08:29	1

Lab Sample ID: LCS 240-335210/24-A
Matrix: Solid
Analysis Batch: 335576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335210

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
PCB-1016	1000	682.9		ug/Kg		68	47 - 120
PCB-1260	1000	823.9		ug/Kg		82	46 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	59		14 - 128
DCB Decachlorobiphenyl	87		10 - 132

TestAmerica Canton

QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-335217/23-A
Matrix: Solid
Analysis Batch: 335539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335217

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	22.0	U	50.0	22.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1
PCB-1221	24.0	U	50.0	24.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1
PCB-1232	23.0	U	50.0	23.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1
PCB-1242	19.0	U	50.0	19.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1
PCB-1248	24.0	U	50.0	24.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1
PCB-1254	23.0	U	50.0	23.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1
PCB-1260	22.0	U	50.0	22.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		07/09/18 08:19	07/11/18 01:54	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	77		14 - 128	07/09/18 08:19	07/11/18 01:54	1
DCB Decachlorobiphenyl	72	p	10 - 132	07/09/18 08:19	07/11/18 01:54	1

Lab Sample ID: LCS 240-335217/24-A
Matrix: Solid
Analysis Batch: 335539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335217

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	1000	662.0		ug/Kg		66	47 - 120
PCB-1260	1000	759.5		ug/Kg		76	46 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	70		14 - 128
DCB Decachlorobiphenyl	72	p	10 - 132

Lab Sample ID: 240-97885-15 MS
Matrix: Solid
Analysis Batch: 335539

Client Sample ID: ED-00.00-SL03-0.9-1.7 MS
Prep Type: Total/NA
Prep Batch: 335217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
PCB-1016	24.4	U F2	1110	603.6		ug/Kg	☼	54	31 - 120
PCB-1260	24.4	U	1110	674.7		ug/Kg	☼	61	21 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	63		14 - 128
DCB Decachlorobiphenyl	60		10 - 132

Lab Sample ID: 240-97885-15 MSD
Matrix: Solid
Analysis Batch: 335539

Client Sample ID: ED-00.00-SL03-0.9-1.7 MSD
Prep Type: Total/NA
Prep Batch: 335217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	Limits	RPD	
				Result	Qualifier					RPD	Limit
PCB-1016	24.4	U F2	1210	824.6	F2	ug/Kg	☼	68	31 - 120	31	30
PCB-1260	24.4	U	1210	897.8		ug/Kg	☼	74	21 - 122	28	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	78		14 - 128

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QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 240-97885-15 MSD
Matrix: Solid
Analysis Batch: 335539

Client Sample ID: ED-00.00-SL03-0.9-1.7 MSD
Prep Type: Total/NA
Prep Batch: 335217

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	70	p	10 - 132

Lab Sample ID: MB 240-335309/16-A
Matrix: Solid
Analysis Batch: 335509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335309

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	22.0	U	50.0	22.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1
PCB-1221	24.0	U	50.0	24.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1
PCB-1232	23.0	U	50.0	23.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1
PCB-1242	19.0	U	50.0	19.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1
PCB-1248	24.0	U	50.0	24.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1
PCB-1254	23.0	U	50.0	23.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1
PCB-1260	22.0	U	50.0	22.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1
Polychlorinated biphenyls, Total	31.0	U	50.0	31.0	ug/Kg		07/09/18 14:18	07/11/18 04:29	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	71		14 - 128	07/09/18 14:18	07/11/18 04:29	1
DCB Decachlorobiphenyl	127		10 - 132	07/09/18 14:18	07/11/18 04:29	1

Lab Sample ID: LCS 240-335309/17-A
Matrix: Solid
Analysis Batch: 335509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1000	632.2		ug/Kg		63	47 - 120
PCB-1260	1000	728.8		ug/Kg		73	46 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	67		14 - 128
DCB Decachlorobiphenyl	107		10 - 132

Lab Sample ID: 240-97885-25 MS
Matrix: Solid
Analysis Batch: 335509

Client Sample ID: ED-00.17-SL02-1.8-2.8 MS
Prep Type: Total/NA
Prep Batch: 335309

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
PCB-1016	28.8	U	1270	855.2		ug/Kg	☼	67	31 - 120
PCB-1260	28.8	U	1270	969.3		ug/Kg	☼	76	21 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	71		14 - 128
DCB Decachlorobiphenyl	113		10 - 132

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 240-97885-25 MSD

Matrix: Solid
Analysis Batch: 335509

Client Sample ID: ED-00.17-SL02-1.8-2.8 MSD

Prep Type: Total/NA
Prep Batch: 335309

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	28.8	U	1270	666.1		ug/Kg	☼	52	31 - 120	25	30
PCB-1260	28.8	U	1270	742.2		ug/Kg	☼	58	21 - 122	25	30
			MSD	MSD							
Surrogate	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	56		14 - 128								
DCB Decachlorobiphenyl	161	X	10 - 132								

Lab Sample ID: 240-97885-34 MS

Matrix: Solid
Analysis Batch: 335509

Client Sample ID: ED-00.19-SL01-1.8-2.3 MS

Prep Type: Total/NA
Prep Batch: 335309

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	124	U	1210	1352		ug/Kg	☼	112	31 - 120		
PCB-1260	124	U	1210	1163		ug/Kg	☼	96	21 - 122		
			MS	MS							
Surrogate	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	84		14 - 128								
DCB Decachlorobiphenyl	542	X	10 - 132								

Lab Sample ID: 240-97885-34 MSD

Matrix: Solid
Analysis Batch: 335509

Client Sample ID: ED-00.19-SL01-1.8-2.3 MSD

Prep Type: Total/NA
Prep Batch: 335309

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	124	U	1180	1221		ug/Kg	☼	103	31 - 120	10	30
PCB-1260	124	U	1180	1004		ug/Kg	☼	85	21 - 122	15	30
			MSD	MSD							
Surrogate	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	74		14 - 128								
DCB Decachlorobiphenyl	323	X	10 - 132								

Method: Moisture - Percent Moisture

Lab Sample ID: 240-97885-9 DU

Matrix: Solid
Analysis Batch: 334355

Client Sample ID: ED-01.14-SL05-0.5-1.0

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	79.8		81.5		%		2	20
Percent Moisture	20.2		18.5		%		9	20

Lab Sample ID: 240-97885-15 DU

Matrix: Solid
Analysis Batch: 334355

Client Sample ID: ED-00.00-SL03-0.9-1.7 DUP

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	87.2		85.0		%		3	20

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QC Sample Results

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 240-97885-15 DU
Matrix: Solid
Analysis Batch: 334355

Client Sample ID: ED-00.00-SL03-0.9-1.7 DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	12.8		15.0		%		16	20

Lab Sample ID: 240-97885-25 DU
Matrix: Solid
Analysis Batch: 334355

Client Sample ID: ED-00.17-SL02-1.8-2.8 DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	77.2		75.7		%		2	20
Percent Moisture	22.8		24.3		%		7	20

Lab Sample ID: 240-97885-34 DU
Matrix: Solid
Analysis Batch: 334355

Client Sample ID: ED-00.19-SL01-1.8-2.3 DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	86.5		89.8		%		4	20
Percent Moisture	13.5		10.2	F3	%		27	20

Lab Sample ID: 240-97885-58 DU
Matrix: Solid
Analysis Batch: 334355

Client Sample ID: ED-01.14-SL04-1.0-1.5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	83.2		83.4		%		0.3	20
Percent Moisture	16.8		16.6		%		2	20

Lab Sample ID: 240-97885-65 DU
Matrix: Solid
Analysis Batch: 334355

Client Sample ID: ED-00.36-SL01-1.5-2.0 DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	86.9		82.8		%		5	20
Percent Moisture	13.1		17.2	F3	%		27	20

Lab Sample ID: 240-97885-66 DU
Matrix: Solid
Analysis Batch: 334355

Client Sample ID: ED-00.41-SL01-0.5-1.0
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	87.9		88.6		%		0.8	20
Percent Moisture	12.1		11.4		%		6	20

Lab Sample ID: 240-97885-106 DU
Matrix: Solid
Analysis Batch: 334355

Client Sample ID: ED-00.36-SL01-1.0-1.5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	83.2		83.8		%		0.7	20
Percent Moisture	16.8		16.2		%		3	20

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

GC Semi VOA

Prep Batch: 334947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-35	ED-00.19-SL01-1.5-1.8	Total/NA	Solid	3540C	
240-97885-36	ED-00.19-SL01-0.0-0.8	Total/NA	Solid	3540C	
240-97885-37	ED-00.19-SL01-0.8-1.5	Total/NA	Solid	3540C	
240-97885-38	ED-00.19-SL01-0.8-1.5-FD	Total/NA	Solid	3540C	
240-97885-41	ED-00.21-SL01-0.0-1.0	Total/NA	Solid	3540C	
MB 240-334947/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-334947/24-A	Lab Control Sample	Total/NA	Solid	3540C	

Prep Batch: 334984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-42	ED-00.21-SL01-1.0-2.0	Total/NA	Solid	3540C	
240-97885-43	ED-00.21-SL01-1.0-2.0-FD	Total/NA	Solid	3540C	
240-97885-46	ED-00.27-SL01-0.0-1.0	Total/NA	Solid	3540C	
240-97885-47	ED-00.27-SL01-1.0-1.9	Total/NA	Solid	3540C	
240-97885-48	ED-00.27-SL01-1.9-2.8	Total/NA	Solid	3540C	
240-97885-50	ED-00.23-SL01-0.7-1.2	Total/NA	Solid	3540C	
240-97885-51	ED-00.23-SL01-0.7-1.2-FD	Total/NA	Solid	3540C	
240-97885-56	ED-01.14-SL04-0.5-1.0	Total/NA	Solid	3540C	
MB 240-334984/9-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-334984/10-A	Lab Control Sample	Total/NA	Solid	3540C	

Prep Batch: 335042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-2	ED-00.51-SL06-1.0-2.0	Total/NA	Solid	3540C	
240-97885-4	ED-01.14-SL01-0.5-1.0	Total/NA	Solid	3540C	
240-97885-5	ED-01.14-SL01-1.0-1.5	Total/NA	Solid	3540C	
240-97885-8	ED-01.14-SL05-0.0-0.5	Total/NA	Solid	3540C	
240-97885-9	ED-01.14-SL05-0.5-1.0	Total/NA	Solid	3540C	
240-97885-65	ED-00.36-SL01-1.5-2.0	Total/NA	Solid	3540C	
240-97885-85	ED-01.14-SL06-0.0-0.5	Total/NA	Solid	3540C	
240-97885-86	ED-01.14-SL06-0.5-1.0	Total/NA	Solid	3540C	
240-97885-87	ED-01.14-SL06-1.0-1.5	Total/NA	Solid	3540C	
240-97885-89	ED-00.31-SL01-0.0-1.0	Total/NA	Solid	3540C	
240-97885-90	ED-00.31-SL01-1.0-2.0	Total/NA	Solid	3540C	
240-97885-94	ED-00.33-SL01-0.0-0.7	Total/NA	Solid	3540C	
240-97885-95	ED-00.33-SL01-0.7-1.6	Total/NA	Solid	3540C	
240-97885-96	ED-00.33-SL01-1.6-2.3	Total/NA	Solid	3540C	
240-97885-99	ED-00.23-SL01-0.0-0.7	Total/NA	Solid	3540C	
240-97885-100	ED-00.23-SL01-1.2-2.0	Total/NA	Solid	3540C	
240-97885-103	ED-00.29-SL01-0.0-0.7	Total/NA	Solid	3540C	
240-97885-104	ED-00.29-SL01-0.7-1.7	Total/NA	Solid	3540C	
240-97885-105	ED-00.29-SL01-1.7-2.7-FD	Total/NA	Solid	3540C	
240-97885-106	ED-00.36-SL01-1.0-1.5	Total/NA	Solid	3540C	
MB 240-335042/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-335042/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-97885-65 MS	ED-00.36-SL01-1.5-2.0 MS	Total/NA	Solid	3540C	
240-97885-65 MSD	ED-00.36-SL01-1.5-2.0 MSD	Total/NA	Solid	3540C	

Analysis Batch: 335161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-35	ED-00.19-SL01-1.5-1.8	Total/NA	Solid	8082A	334947

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

GC Semi VOA (Continued)

Analysis Batch: 335161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-36	ED-00.19-SL01-0.0-0.8	Total/NA	Solid	8082A	334947
240-97885-37	ED-00.19-SL01-0.8-1.5	Total/NA	Solid	8082A	334947
240-97885-38	ED-00.19-SL01-0.8-1.5-FD	Total/NA	Solid	8082A	334947
240-97885-41	ED-00.21-SL01-0.0-1.0	Total/NA	Solid	8082A	334947
MB 240-334947/23-A	Method Blank	Total/NA	Solid	8082A	334947
LCS 240-334947/24-A	Lab Control Sample	Total/NA	Solid	8082A	334947

Prep Batch: 335210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-11	ED-01.14-SL05-1.0-1.5	Total/NA	Solid	3540C	
240-97885-14	ED-00.00-SL03-1.7-2.5	Total/NA	Solid	3540C	
240-97885-16	ED-00.00-SL03-0.0-0.9	Total/NA	Solid	3540C	
MB 240-335210/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-335210/24-A	Lab Control Sample	Total/NA	Solid	3540C	

Prep Batch: 335217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-15	ED-00.00-SL03-0.9-1.7	Total/NA	Solid	3540C	
240-97885-17	ED-00.00-SL04-0.0-0.9	Total/NA	Solid	3540C	
240-97885-18	ED-00.00-SL04-0.9-1.8	Total/NA	Solid	3540C	
240-97885-19	ED-00.00-SL04-0.0-0.9-FD	Total/NA	Solid	3540C	
240-97885-20	ED-00.00-SL04-1.8-2.7	Total/NA	Solid	3540C	
240-97885-22	ED-00.17-SL02-0.0-0.8-FD	Total/NA	Solid	3540C	
240-97885-23	ED-00.17-SL02-0.0-0.8	Total/NA	Solid	3540C	
240-97885-24	ED-00.17-SL02-0.8-1.8	Total/NA	Solid	3540C	
240-97885-27	ED-00.41-SL01-0.0-0.5	Total/NA	Solid	3540C	
240-97885-28	ED-00.41-SL01-1.0-1.5	Total/NA	Solid	3540C	
240-97885-29	ED-00.41-SL01-1.5-2.0	Total/NA	Solid	3540C	
240-97885-30	ED-00.41-SL01-1.5-2.0-FD	Total/NA	Solid	3540C	
240-97885-57	ED-01.14-SL04-1.5-1.8	Total/NA	Solid	3540C	
240-97885-58	ED-01.14-SL04-1.0-1.5	Total/NA	Solid	3540C	
240-97885-59	ED-01.14-SL04-0.0-0.5	Total/NA	Solid	3540C	
240-97885-60	ED-00.36-SL01-0.4-1.0	Total/NA	Solid	3540C	
240-97885-61	ED-00.00-SL03-0.9-1.7	Total/NA	Solid	3540C	
240-97885-62	ED-00.36-SL01-0.0-0.4	Total/NA	Solid	3540C	
240-97885-66	ED-00.41-SL01-0.5-1.0	Total/NA	Solid	3540C	
240-97885-68	ED-00.36-SL01-1.5-2.0-FD	Total/NA	Solid	3540C	
MB 240-335217/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-335217/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-97885-15 MS	ED-00.00-SL03-0.9-1.7 MS	Total/NA	Solid	3540C	
240-97885-15 MSD	ED-00.00-SL03-0.9-1.7 MSD	Total/NA	Solid	3540C	

Prep Batch: 335309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-25	ED-00.17-SL02-1.8-2.8	Total/NA	Solid	3540C	
240-97885-34	ED-00.19-SL01-1.8-2.3	Total/NA	Solid	3540C	
240-97885-69	ED-00.36-SL01-0.4-1.0	Total/NA	Solid	3540C	
240-97885-70	ED-00.19-SL01-1.8-2.3	Total/NA	Solid	3540C	
240-97885-74	ED-00.29-SL01-1.7-2.7	Total/NA	Solid	3540C	
240-97885-77	ED-00.44-SL01-0.0-0.5	Total/NA	Solid	3540C	
240-97885-78	ED-00.44-SL01-0.5-1.0	Total/NA	Solid	3540C	

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

GC Semi VOA (Continued)

Prep Batch: 335309 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-79	ED-00.44-SL01-1.0-1.5	Total/NA	Solid	3540C	
240-97885-80	ED-00.44-SL01-1.5-1.8	Total/NA	Solid	3540C	
240-97885-81	ED-00.44-SL01-1.8-2.0	Total/NA	Solid	3540C	
MB 240-335309/16-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-335309/17-A	Lab Control Sample	Total/NA	Solid	3540C	
240-97885-25 MS	ED-00.17-SL02-1.8-2.8 MS	Total/NA	Solid	3540C	
240-97885-25 MSD	ED-00.17-SL02-1.8-2.8 MSD	Total/NA	Solid	3540C	
240-97885-34 MS	ED-00.19-SL01-1.8-2.3 MS	Total/NA	Solid	3540C	
240-97885-34 MSD	ED-00.19-SL01-1.8-2.3 MSD	Total/NA	Solid	3540C	

Analysis Batch: 335385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-42	ED-00.21-SL01-1.0-2.0	Total/NA	Solid	8082A	334984
240-97885-43	ED-00.21-SL01-1.0-2.0-FD	Total/NA	Solid	8082A	334984
240-97885-46	ED-00.27-SL01-0.0-1.0	Total/NA	Solid	8082A	334984
240-97885-47	ED-00.27-SL01-1.0-1.9	Total/NA	Solid	8082A	334984
240-97885-48	ED-00.27-SL01-1.9-2.8	Total/NA	Solid	8082A	334984
240-97885-50	ED-00.23-SL01-0.7-1.2	Total/NA	Solid	8082A	334984
240-97885-51	ED-00.23-SL01-0.7-1.2-FD	Total/NA	Solid	8082A	334984
240-97885-56	ED-01.14-SL04-0.5-1.0	Total/NA	Solid	8082A	334984
MB 240-334984/9-A	Method Blank	Total/NA	Solid	8082A	334984
LCS 240-334984/10-A	Lab Control Sample	Total/NA	Solid	8082A	334984

Analysis Batch: 335388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-2	ED-00.51-SL06-1.0-2.0	Total/NA	Solid	8082A	335042
240-97885-4	ED-01.14-SL01-0.5-1.0	Total/NA	Solid	8082A	335042
240-97885-5	ED-01.14-SL01-1.0-1.5	Total/NA	Solid	8082A	335042
240-97885-8	ED-01.14-SL05-0.0-0.5	Total/NA	Solid	8082A	335042
240-97885-9	ED-01.14-SL05-0.5-1.0	Total/NA	Solid	8082A	335042
240-97885-65	ED-00.36-SL01-1.5-2.0	Total/NA	Solid	8082A	335042
240-97885-85	ED-01.14-SL06-0.0-0.5	Total/NA	Solid	8082A	335042
240-97885-86	ED-01.14-SL06-0.5-1.0	Total/NA	Solid	8082A	335042
240-97885-87	ED-01.14-SL06-1.0-1.5	Total/NA	Solid	8082A	335042
240-97885-89	ED-00.31-SL01-0.0-1.0	Total/NA	Solid	8082A	335042
240-97885-90	ED-00.31-SL01-1.0-2.0	Total/NA	Solid	8082A	335042
240-97885-94	ED-00.33-SL01-0.0-0.7	Total/NA	Solid	8082A	335042
240-97885-95	ED-00.33-SL01-0.7-1.6	Total/NA	Solid	8082A	335042
240-97885-96	ED-00.33-SL01-1.6-2.3	Total/NA	Solid	8082A	335042
240-97885-99	ED-00.23-SL01-0.0-0.7	Total/NA	Solid	8082A	335042
240-97885-100	ED-00.23-SL01-1.2-2.0	Total/NA	Solid	8082A	335042
240-97885-103	ED-00.29-SL01-0.0-0.7	Total/NA	Solid	8082A	335042
240-97885-104	ED-00.29-SL01-0.7-1.7	Total/NA	Solid	8082A	335042
240-97885-105	ED-00.29-SL01-1.7-2.7-FD	Total/NA	Solid	8082A	335042
240-97885-106	ED-00.36-SL01-1.0-1.5	Total/NA	Solid	8082A	335042
MB 240-335042/23-A	Method Blank	Total/NA	Solid	8082A	335042
LCS 240-335042/24-A	Lab Control Sample	Total/NA	Solid	8082A	335042
240-97885-65 MS	ED-00.36-SL01-1.5-2.0 MS	Total/NA	Solid	8082A	335042
240-97885-65 MSD	ED-00.36-SL01-1.5-2.0 MSD	Total/NA	Solid	8082A	335042

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

GC Semi VOA (Continued)

Analysis Batch: 335509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-25	ED-00.17-SL02-1.8-2.8	Total/NA	Solid	8082A	335309
240-97885-34	ED-00.19-SL01-1.8-2.3	Total/NA	Solid	8082A	335309
240-97885-69	ED-00.36-SL01-0.4-1.0	Total/NA	Solid	8082A	335309
240-97885-70	ED-00.19-SL01-1.8-2.3	Total/NA	Solid	8082A	335309
240-97885-74	ED-00.29-SL01-1.7-2.7	Total/NA	Solid	8082A	335309
240-97885-77	ED-00.44-SL01-0.0-0.5	Total/NA	Solid	8082A	335309
240-97885-78	ED-00.44-SL01-0.5-1.0	Total/NA	Solid	8082A	335309
240-97885-79	ED-00.44-SL01-1.0-1.5	Total/NA	Solid	8082A	335309
240-97885-80	ED-00.44-SL01-1.5-1.8	Total/NA	Solid	8082A	335309
240-97885-81	ED-00.44-SL01-1.8-2.0	Total/NA	Solid	8082A	335309
MB 240-335309/16-A	Method Blank	Total/NA	Solid	8082A	335309
LCS 240-335309/17-A	Lab Control Sample	Total/NA	Solid	8082A	335309
240-97885-25 MS	ED-00.17-SL02-1.8-2.8 MS	Total/NA	Solid	8082A	335309
240-97885-25 MSD	ED-00.17-SL02-1.8-2.8 MSD	Total/NA	Solid	8082A	335309
240-97885-34 MS	ED-00.19-SL01-1.8-2.3 MS	Total/NA	Solid	8082A	335309
240-97885-34 MSD	ED-00.19-SL01-1.8-2.3 MSD	Total/NA	Solid	8082A	335309

Analysis Batch: 335539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-15	ED-00.00-SL03-0.9-1.7	Total/NA	Solid	8082A	335217
240-97885-17	ED-00.00-SL04-0.0-0.9	Total/NA	Solid	8082A	335217
240-97885-18	ED-00.00-SL04-0.9-1.8	Total/NA	Solid	8082A	335217
240-97885-19	ED-00.00-SL04-0.0-0.9-FD	Total/NA	Solid	8082A	335217
240-97885-20	ED-00.00-SL04-1.8-2.7	Total/NA	Solid	8082A	335217
240-97885-22	ED-00.17-SL02-0.0-0.8-FD	Total/NA	Solid	8082A	335217
240-97885-23	ED-00.17-SL02-0.0-0.8	Total/NA	Solid	8082A	335217
240-97885-24	ED-00.17-SL02-0.8-1.8	Total/NA	Solid	8082A	335217
240-97885-27	ED-00.41-SL01-0.0-0.5	Total/NA	Solid	8082A	335217
240-97885-28	ED-00.41-SL01-1.0-1.5	Total/NA	Solid	8082A	335217
240-97885-29	ED-00.41-SL01-1.5-2.0	Total/NA	Solid	8082A	335217
240-97885-30	ED-00.41-SL01-1.5-2.0-FD	Total/NA	Solid	8082A	335217
240-97885-57	ED-01.14-SL04-1.5-1.8	Total/NA	Solid	8082A	335217
240-97885-58	ED-01.14-SL04-1.0-1.5	Total/NA	Solid	8082A	335217
240-97885-59	ED-01.14-SL04-0.0-0.5	Total/NA	Solid	8082A	335217
240-97885-60	ED-00.36-SL01-0.4-1.0	Total/NA	Solid	8082A	335217
240-97885-61	ED-00.00-SL03-0.9-1.7	Total/NA	Solid	8082A	335217
240-97885-62	ED-00.36-SL01-0.0-0.4	Total/NA	Solid	8082A	335217
240-97885-66	ED-00.41-SL01-0.5-1.0	Total/NA	Solid	8082A	335217
240-97885-68	ED-00.36-SL01-1.5-2.0-FD	Total/NA	Solid	8082A	335217
MB 240-335217/23-A	Method Blank	Total/NA	Solid	8082A	335217
LCS 240-335217/24-A	Lab Control Sample	Total/NA	Solid	8082A	335217
240-97885-15 MS	ED-00.00-SL03-0.9-1.7 MS	Total/NA	Solid	8082A	335217
240-97885-15 MSD	ED-00.00-SL03-0.9-1.7 MSD	Total/NA	Solid	8082A	335217

Analysis Batch: 335576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-11	ED-01.14-SL05-1.0-1.5	Total/NA	Solid	8082A	335210
240-97885-14	ED-00.00-SL03-1.7-2.5	Total/NA	Solid	8082A	335210
240-97885-16	ED-00.00-SL03-0.0-0.9	Total/NA	Solid	8082A	335210
MB 240-335210/23-A	Method Blank	Total/NA	Solid	8082A	335210
LCS 240-335210/24-A	Lab Control Sample	Total/NA	Solid	8082A	335210

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

General Chemistry

Analysis Batch: 334355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-2	ED-00.51-SL06-1.0-2.0	Total/NA	Solid	Moisture	
240-97885-4	ED-01.14-SL01-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-5	ED-01.14-SL01-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-8	ED-01.14-SL05-0.0-0.5	Total/NA	Solid	Moisture	
240-97885-9	ED-01.14-SL05-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-11	ED-01.14-SL05-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-14	ED-00.00-SL03-1.7-2.5	Total/NA	Solid	Moisture	
240-97885-15	ED-00.00-SL03-0.9-1.7	Total/NA	Solid	Moisture	
240-97885-16	ED-00.00-SL03-0.0-0.9	Total/NA	Solid	Moisture	
240-97885-17	ED-00.00-SL04-0.0-0.9	Total/NA	Solid	Moisture	
240-97885-18	ED-00.00-SL04-0.9-1.8	Total/NA	Solid	Moisture	
240-97885-19	ED-00.00-SL04-0.0-0.9-FD	Total/NA	Solid	Moisture	
240-97885-20	ED-00.00-SL04-1.8-2.7	Total/NA	Solid	Moisture	
240-97885-22	ED-00.17-SL02-0.0-0.8-FD	Total/NA	Solid	Moisture	
240-97885-23	ED-00.17-SL02-0.0-0.8	Total/NA	Solid	Moisture	
240-97885-24	ED-00.17-SL02-0.8-1.8	Total/NA	Solid	Moisture	
240-97885-25	ED-00.17-SL02-1.8-2.8	Total/NA	Solid	Moisture	
240-97885-27	ED-00.41-SL01-0.0-0.5	Total/NA	Solid	Moisture	
240-97885-28	ED-00.41-SL01-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-29	ED-00.41-SL01-1.5-2.0	Total/NA	Solid	Moisture	
240-97885-30	ED-00.41-SL01-1.5-2.0-FD	Total/NA	Solid	Moisture	
240-97885-34	ED-00.19-SL01-1.8-2.3	Total/NA	Solid	Moisture	
240-97885-35	ED-00.19-SL01-1.5-1.8	Total/NA	Solid	Moisture	
240-97885-36	ED-00.19-SL01-0.0-0.8	Total/NA	Solid	Moisture	
240-97885-37	ED-00.19-SL01-0.8-1.5	Total/NA	Solid	Moisture	
240-97885-38	ED-00.19-SL01-0.8-1.5-FD	Total/NA	Solid	Moisture	
240-97885-41	ED-00.21-SL01-0.0-1.0	Total/NA	Solid	Moisture	
240-97885-42	ED-00.21-SL01-1.0-2.0	Total/NA	Solid	Moisture	
240-97885-43	ED-00.21-SL01-1.0-2.0-FD	Total/NA	Solid	Moisture	
240-97885-46	ED-00.27-SL01-0.0-1.0	Total/NA	Solid	Moisture	
240-97885-47	ED-00.27-SL01-1.0-1.9	Total/NA	Solid	Moisture	
240-97885-48	ED-00.27-SL01-1.9-2.8	Total/NA	Solid	Moisture	
240-97885-50	ED-00.23-SL01-0.7-1.2	Total/NA	Solid	Moisture	
240-97885-51	ED-00.23-SL01-0.7-1.2-FD	Total/NA	Solid	Moisture	
240-97885-56	ED-01.14-SL04-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-57	ED-01.14-SL04-1.5-1.8	Total/NA	Solid	Moisture	
240-97885-58	ED-01.14-SL04-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-59	ED-01.14-SL04-0.0-0.5	Total/NA	Solid	Moisture	
240-97885-60	ED-00.36-SL01-0.4-1.0	Total/NA	Solid	Moisture	
240-97885-61	ED-00.00-SL03-0.9-1.7	Total/NA	Solid	Moisture	
240-97885-62	ED-00.36-SL01-0.0-0.4	Total/NA	Solid	Moisture	
240-97885-65	ED-00.36-SL01-1.5-2.0	Total/NA	Solid	Moisture	
240-97885-66	ED-00.41-SL01-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-68	ED-00.36-SL01-1.5-2.0-FD	Total/NA	Solid	Moisture	
240-97885-69	ED-00.36-SL01-0.4-1.0	Total/NA	Solid	Moisture	
240-97885-70	ED-00.19-SL01-1.8-2.3	Total/NA	Solid	Moisture	
240-97885-74	ED-00.29-SL01-1.7-2.7	Total/NA	Solid	Moisture	
240-97885-77	ED-00.44-SL01-0.0-0.5	Total/NA	Solid	Moisture	
240-97885-78	ED-00.44-SL01-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-79	ED-00.44-SL01-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-80	ED-00.44-SL01-1.5-1.8	Total/NA	Solid	Moisture	

TestAmerica Canton

QC Association Summary

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

General Chemistry (Continued)

Analysis Batch: 334355 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97885-81	ED-00.44-SL01-1.8-2.0	Total/NA	Solid	Moisture	
240-97885-85	ED-01.14-SL06-0.0-0.5	Total/NA	Solid	Moisture	
240-97885-86	ED-01.14-SL06-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-87	ED-01.14-SL06-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-89	ED-00.31-SL01-0.0-1.0	Total/NA	Solid	Moisture	
240-97885-90	ED-00.31-SL01-1.0-2.0	Total/NA	Solid	Moisture	
240-97885-94	ED-00.33-SL01-0.0-0.7	Total/NA	Solid	Moisture	
240-97885-95	ED-00.33-SL01-0.7-1.6	Total/NA	Solid	Moisture	
240-97885-96	ED-00.33-SL01-1.6-2.3	Total/NA	Solid	Moisture	
240-97885-99	ED-00.23-SL01-0.0-0.7	Total/NA	Solid	Moisture	
240-97885-100	ED-00.23-SL01-1.2-2.0	Total/NA	Solid	Moisture	
240-97885-103	ED-00.29-SL01-0.0-0.7	Total/NA	Solid	Moisture	
240-97885-104	ED-00.29-SL01-0.7-1.7	Total/NA	Solid	Moisture	
240-97885-105	ED-00.29-SL01-1.7-2.7-FD	Total/NA	Solid	Moisture	
240-97885-106	ED-00.36-SL01-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-9 DU	ED-01.14-SL05-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-15 DU	ED-00.00-SL03-0.9-1.7 DUP	Total/NA	Solid	Moisture	
240-97885-25 DU	ED-00.17-SL02-1.8-2.8 DUP	Total/NA	Solid	Moisture	
240-97885-34 DU	ED-00.19-SL01-1.8-2.3 DUP	Total/NA	Solid	Moisture	
240-97885-58 DU	ED-01.14-SL04-1.0-1.5	Total/NA	Solid	Moisture	
240-97885-65 DU	ED-00.36-SL01-1.5-2.0 DUP	Total/NA	Solid	Moisture	
240-97885-66 DU	ED-00.41-SL01-0.5-1.0	Total/NA	Solid	Moisture	
240-97885-106 DU	ED-00.36-SL01-1.0-1.5	Total/NA	Solid	Moisture	

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Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.51-SL06-1.0-2.0

Lab Sample ID: 240-97885-2

Date Collected: 06/16/18 16:40

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

Client Sample ID: ED-00.51-SL06-1.0-2.0

Lab Sample ID: 240-97885-2

Date Collected: 06/16/18 16:40

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		5	335388	07/10/18 09:58	CSC	TAL CAN

Client Sample ID: ED-01.14-SL01-0.5-1.0

Lab Sample ID: 240-97885-4

Date Collected: 06/15/18 18:12

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

Client Sample ID: ED-01.14-SL01-0.5-1.0

Lab Sample ID: 240-97885-4

Date Collected: 06/15/18 18:12

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		10	335388	07/10/18 10:15	CSC	TAL CAN

Client Sample ID: ED-01.14-SL01-1.0-1.5

Lab Sample ID: 240-97885-5

Date Collected: 06/15/18 18:17

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

Client Sample ID: ED-01.14-SL01-1.0-1.5

Lab Sample ID: 240-97885-5

Date Collected: 06/15/18 18:17

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		10	335388	07/10/18 10:33	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-01.14-SL05-0.0-0.5

Lab Sample ID: 240-97885-8

Date Collected: 06/15/18 18:26

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

Client Sample ID: ED-01.14-SL05-0.0-0.5

Lab Sample ID: 240-97885-8

Date Collected: 06/15/18 18:26

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 10:50	CSC	TAL CAN

Client Sample ID: ED-01.14-SL05-0.5-1.0

Lab Sample ID: 240-97885-9

Date Collected: 06/15/18 18:27

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

Client Sample ID: ED-01.14-SL05-0.5-1.0

Lab Sample ID: 240-97885-9

Date Collected: 06/15/18 18:27

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 11:08	CSC	TAL CAN

Client Sample ID: ED-01.14-SL05-1.0-1.5

Lab Sample ID: 240-97885-11

Date Collected: 06/15/18 18:30

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

Client Sample ID: ED-01.14-SL05-1.0-1.5

Lab Sample ID: 240-97885-11

Date Collected: 06/15/18 18:30

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335210	07/09/18 07:37	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335576	07/11/18 12:21	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.00-SL03-1.7-2.5

Lab Sample ID: 240-97885-14

Date Collected: 06/14/18 15:52

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

Client Sample ID: ED-00.00-SL03-1.7-2.5

Lab Sample ID: 240-97885-14

Date Collected: 06/14/18 15:52

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335210	07/09/18 07:37	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335576	07/11/18 12:40	CSC	TAL CAN

Client Sample ID: ED-00.00-SL03-0.9-1.7

Lab Sample ID: 240-97885-15

Date Collected: 06/14/18 15:50

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

Client Sample ID: ED-00.00-SL03-0.9-1.7

Lab Sample ID: 240-97885-15

Date Collected: 06/14/18 15:50

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/10/18 21:01	KMG	TAL CAN

Client Sample ID: ED-00.00-SL03-0.0-0.9

Lab Sample ID: 240-97885-16

Date Collected: 06/14/18 15:47

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 08:55	LKG	TAL CAN

Client Sample ID: ED-00.00-SL03-0.0-0.9

Lab Sample ID: 240-97885-16

Date Collected: 06/14/18 15:47

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 74.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335210	07/09/18 07:37	DVT	TAL CAN
Total/NA	Analysis	8082A		5	335576	07/11/18 12:58	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.00-SL04-0.0-0.9

Lab Sample ID: 240-97885-17

Date Collected: 06/14/18 16:10

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.00-SL04-0.0-0.9

Lab Sample ID: 240-97885-17

Date Collected: 06/14/18 16:10

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/10/18 22:00	KMG	TAL CAN

Client Sample ID: ED-00.00-SL04-0.9-1.8

Lab Sample ID: 240-97885-18

Date Collected: 06/14/18 16:15

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.00-SL04-0.9-1.8

Lab Sample ID: 240-97885-18

Date Collected: 06/14/18 16:15

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/10/18 22:19	KMG	TAL CAN

Client Sample ID: ED-00.00-SL04-0.0-0.9-FD

Lab Sample ID: 240-97885-19

Date Collected: 06/14/18 16:10

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.00-SL04-0.0-0.9-FD

Lab Sample ID: 240-97885-19

Date Collected: 06/14/18 16:10

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/10/18 22:39	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.00-SL04-1.8-2.7

Lab Sample ID: 240-97885-20

Date Collected: 06/14/18 16:19

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.00-SL04-1.8-2.7

Lab Sample ID: 240-97885-20

Date Collected: 06/14/18 16:19

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/10/18 22:58	KMG	TAL CAN

Client Sample ID: ED-00.17-SL02-0.0-0.8-FD

Lab Sample ID: 240-97885-22

Date Collected: 06/14/18 15:20

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.17-SL02-0.0-0.8-FD

Lab Sample ID: 240-97885-22

Date Collected: 06/14/18 15:20

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		50	335539	07/10/18 23:18	KMG	TAL CAN

Client Sample ID: ED-00.17-SL02-0.0-0.8

Lab Sample ID: 240-97885-23

Date Collected: 06/14/18 15:20

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.17-SL02-0.0-0.8

Lab Sample ID: 240-97885-23

Date Collected: 06/14/18 15:20

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		100	335539	07/10/18 23:37	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.17-SL02-0.8-1.8

Lab Sample ID: 240-97885-24

Date Collected: 06/14/18 15:22

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.17-SL02-0.8-1.8

Lab Sample ID: 240-97885-24

Date Collected: 06/14/18 15:22

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		5	335539	07/10/18 23:57	KMG	TAL CAN

Client Sample ID: ED-00.17-SL02-1.8-2.8

Lab Sample ID: 240-97885-25

Date Collected: 06/14/18 15:24

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.17-SL02-1.8-2.8

Lab Sample ID: 240-97885-25

Date Collected: 06/14/18 15:24

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/10/18 23:25	LSH	TAL CAN

Client Sample ID: ED-00.41-SL01-0.0-0.5

Lab Sample ID: 240-97885-27

Date Collected: 06/14/18 10:03

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.41-SL01-0.0-0.5

Lab Sample ID: 240-97885-27

Date Collected: 06/14/18 10:03

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		20	335539	07/11/18 00:16	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.41-SL01-1.0-1.5

Lab Sample ID: 240-97885-28

Date Collected: 06/14/18 10:06

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.41-SL01-1.0-1.5

Lab Sample ID: 240-97885-28

Date Collected: 06/14/18 10:06

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 00:36	KMG	TAL CAN

Client Sample ID: ED-00.41-SL01-1.5-2.0

Lab Sample ID: 240-97885-29

Date Collected: 06/14/18 10:08

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.41-SL01-1.5-2.0

Lab Sample ID: 240-97885-29

Date Collected: 06/14/18 10:08

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 00:55	KMG	TAL CAN

Client Sample ID: ED-00.41-SL01-1.5-2.0-FD

Lab Sample ID: 240-97885-30

Date Collected: 06/14/18 10:08

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.41-SL01-1.5-2.0-FD

Lab Sample ID: 240-97885-30

Date Collected: 06/14/18 10:08

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 01:15	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.19-SL01-1.8-2.3

Lab Sample ID: 240-97885-34

Date Collected: 06/14/18 14:48

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.19-SL01-1.8-2.3

Lab Sample ID: 240-97885-34

Date Collected: 06/14/18 14:48

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		5	335509	07/11/18 03:39	LSH	TAL CAN

Client Sample ID: ED-00.19-SL01-1.5-1.8

Lab Sample ID: 240-97885-35

Date Collected: 06/14/18 14:46

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.19-SL01-1.5-1.8

Lab Sample ID: 240-97885-35

Date Collected: 06/14/18 14:46

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334947	07/06/18 07:48	DVT	TAL CAN
Total/NA	Analysis	8082A		5	335161	07/08/18 22:17	LSH	TAL CAN

Client Sample ID: ED-00.19-SL01-0.0-0.8

Lab Sample ID: 240-97885-36

Date Collected: 06/14/18 04:40

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.19-SL01-0.0-0.8

Lab Sample ID: 240-97885-36

Date Collected: 06/14/18 04:40

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334947	07/06/18 07:48	DVT	TAL CAN
Total/NA	Analysis	8082A		5	335161	07/08/18 22:34	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.19-SL01-0.8-1.5

Lab Sample ID: 240-97885-37

Date Collected: 06/14/18 14:42

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.19-SL01-0.8-1.5

Lab Sample ID: 240-97885-37

Date Collected: 06/14/18 14:42

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334947	07/06/18 07:48	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335161	07/08/18 22:51	LSH	TAL CAN

Client Sample ID: ED-00.19-SL01-0.8-1.5-FD

Lab Sample ID: 240-97885-38

Date Collected: 06/14/18 14:42

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.19-SL01-0.8-1.5-FD

Lab Sample ID: 240-97885-38

Date Collected: 06/14/18 14:42

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334947	07/06/18 07:48	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335161	07/08/18 23:08	LSH	TAL CAN

Client Sample ID: ED-00.21-SL01-0.0-1.0

Lab Sample ID: 240-97885-41

Date Collected: 06/14/18 14:56

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.21-SL01-0.0-1.0

Lab Sample ID: 240-97885-41

Date Collected: 06/14/18 14:56

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334947	07/06/18 07:48	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335161	07/08/18 23:25	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.21-SL01-1.0-2.0

Lab Sample ID: 240-97885-42

Date Collected: 06/14/18 14:58

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.21-SL01-1.0-2.0

Lab Sample ID: 240-97885-42

Date Collected: 06/14/18 14:58

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 10:36	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335385	07/10/18 14:11	KMG	TAL CAN

Client Sample ID: ED-00.21-SL01-1.0-2.0-FD

Lab Sample ID: 240-97885-43

Date Collected: 06/14/18 14:58

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.21-SL01-1.0-2.0-FD

Lab Sample ID: 240-97885-43

Date Collected: 06/14/18 14:58

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 10:36	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335385	07/10/18 14:30	KMG	TAL CAN

Client Sample ID: ED-00.27-SL01-0.0-1.0

Lab Sample ID: 240-97885-46

Date Collected: 06/14/18 13:39

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.27-SL01-0.0-1.0

Lab Sample ID: 240-97885-46

Date Collected: 06/14/18 13:39

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 70.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 10:36	DVT	TAL CAN
Total/NA	Analysis	8082A		50	335385	07/10/18 14:50	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.27-SL01-1.0-1.9

Lab Sample ID: 240-97885-47

Date Collected: 06/14/18 13:41

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.27-SL01-1.0-1.9

Lab Sample ID: 240-97885-47

Date Collected: 06/14/18 13:41

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 10:40	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335385	07/10/18 15:09	KMG	TAL CAN

Client Sample ID: ED-00.27-SL01-1.9-2.8

Lab Sample ID: 240-97885-48

Date Collected: 06/14/18 13:43

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.27-SL01-1.9-2.8

Lab Sample ID: 240-97885-48

Date Collected: 06/14/18 13:43

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 10:40	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335385	07/10/18 11:15	KMG	TAL CAN

Client Sample ID: ED-00.23-SL01-0.7-1.2

Lab Sample ID: 240-97885-50

Date Collected: 06/14/18 12:55

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.23-SL01-0.7-1.2

Lab Sample ID: 240-97885-50

Date Collected: 06/14/18 12:55

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 11:08	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335385	07/10/18 16:47	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.23-SL01-0.7-1.2-FD

Lab Sample ID: 240-97885-51

Date Collected: 06/14/18 12:55

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.23-SL01-0.7-1.2-FD

Lab Sample ID: 240-97885-51

Date Collected: 06/14/18 12:55

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 11:08	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335385	07/10/18 17:07	KMG	TAL CAN

Client Sample ID: ED-01.14-SL04-0.5-1.0

Lab Sample ID: 240-97885-56

Date Collected: 06/15/18 18:33

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-01.14-SL04-0.5-1.0

Lab Sample ID: 240-97885-56

Date Collected: 06/15/18 18:33

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			334984	07/06/18 11:08	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335385	07/10/18 17:26	KMG	TAL CAN

Client Sample ID: ED-01.14-SL04-1.5-1.8

Lab Sample ID: 240-97885-57

Date Collected: 06/15/18 18:40

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-01.14-SL04-1.5-1.8

Lab Sample ID: 240-97885-57

Date Collected: 06/15/18 18:40

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 01:35	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-01.14-SL04-1.0-1.5

Lab Sample ID: 240-97885-58

Date Collected: 06/15/18 18:35

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-01.14-SL04-1.0-1.5

Lab Sample ID: 240-97885-58

Date Collected: 06/15/18 18:35

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 02:53	KMG	TAL CAN

Client Sample ID: ED-01.14-SL04-0.0-0.5

Lab Sample ID: 240-97885-59

Date Collected: 06/15/18 18:30

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-01.14-SL04-0.0-0.5

Lab Sample ID: 240-97885-59

Date Collected: 06/15/18 18:30

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		5	335539	07/11/18 03:12	KMG	TAL CAN

Client Sample ID: ED-00.36-SL01-0.4-1.0

Lab Sample ID: 240-97885-60

Date Collected: 06/14/18 10:58

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.36-SL01-0.4-1.0

Lab Sample ID: 240-97885-60

Date Collected: 06/14/18 10:58

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 03:32	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.00-SL03-0.9-1.7

Lab Sample ID: 240-97885-61

Date Collected: 06/14/18 15:50

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.00-SL03-0.9-1.7

Lab Sample ID: 240-97885-61

Date Collected: 06/14/18 15:50

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 03:51	KMG	TAL CAN

Client Sample ID: ED-00.36-SL01-0.0-0.4

Lab Sample ID: 240-97885-62

Date Collected: 06/14/18 10:50

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.36-SL01-0.0-0.4

Lab Sample ID: 240-97885-62

Date Collected: 06/14/18 10:50

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 04:11	KMG	TAL CAN

Client Sample ID: ED-00.36-SL01-1.5-2.0

Lab Sample ID: 240-97885-65

Date Collected: 06/14/18 10:50

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.36-SL01-1.5-2.0

Lab Sample ID: 240-97885-65

Date Collected: 06/14/18 10:50

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 13:44	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.41-SL01-0.5-1.0

Lab Sample ID: 240-97885-66

Date Collected: 06/14/18 10:05

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.41-SL01-0.5-1.0

Lab Sample ID: 240-97885-66

Date Collected: 06/14/18 10:05

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		2	335539	07/11/18 04:30	KMG	TAL CAN

Client Sample ID: ED-00.36-SL01-1.5-2.0-FD

Lab Sample ID: 240-97885-68

Date Collected: 06/14/18 10:50

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.36-SL01-1.5-2.0-FD

Lab Sample ID: 240-97885-68

Date Collected: 06/14/18 10:50

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335217	07/09/18 08:19	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335539	07/11/18 04:50	KMG	TAL CAN

Client Sample ID: ED-00.36-SL01-0.4-1.0

Lab Sample ID: 240-97885-69

Date Collected: 06/14/18 10:55

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.36-SL01-0.4-1.0

Lab Sample ID: 240-97885-69

Date Collected: 06/14/18 10:55

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/11/18 01:08	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.19-SL01-1.8-2.3

Lab Sample ID: 240-97885-70

Date Collected: 06/14/18 14:48

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:32	LKG	TAL CAN

Client Sample ID: ED-00.19-SL01-1.8-2.3

Lab Sample ID: 240-97885-70

Date Collected: 06/14/18 14:48

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		2	335509	07/11/18 01:24	LSH	TAL CAN

Client Sample ID: ED-00.29-SL01-1.7-2.7

Lab Sample ID: 240-97885-74

Date Collected: 06/14/18 13:36

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.29-SL01-1.7-2.7

Lab Sample ID: 240-97885-74

Date Collected: 06/14/18 13:36

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 70.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/11/18 01:41	LSH	TAL CAN

Client Sample ID: ED-00.44-SL01-0.0-0.5

Lab Sample ID: 240-97885-77

Date Collected: 06/14/18 11:20

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.44-SL01-0.0-0.5

Lab Sample ID: 240-97885-77

Date Collected: 06/14/18 11:20

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/11/18 01:58	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.44-SL01-0.5-1.0

Lab Sample ID: 240-97885-78

Date Collected: 06/14/18 11:22

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.44-SL01-0.5-1.0

Lab Sample ID: 240-97885-78

Date Collected: 06/14/18 11:22

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/11/18 02:14	LSH	TAL CAN

Client Sample ID: ED-00.44-SL01-1.0-1.5

Lab Sample ID: 240-97885-79

Date Collected: 06/14/18 11:27

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.44-SL01-1.0-1.5

Lab Sample ID: 240-97885-79

Date Collected: 06/14/18 11:27

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/11/18 02:32	LSH	TAL CAN

Client Sample ID: ED-00.44-SL01-1.5-1.8

Lab Sample ID: 240-97885-80

Date Collected: 06/14/18 11:34

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.44-SL01-1.5-1.8

Lab Sample ID: 240-97885-80

Date Collected: 06/14/18 11:34

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/11/18 02:49	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.44-SL01-1.8-2.0

Lab Sample ID: 240-97885-81

Date Collected: 06/14/18 11:40

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.44-SL01-1.8-2.0

Lab Sample ID: 240-97885-81

Date Collected: 06/14/18 11:40

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335309	07/09/18 14:12	DVT	TAL CAN
Total/NA	Analysis	8082A		1	335509	07/11/18 03:05	LSH	TAL CAN

Client Sample ID: ED-01.14-SL06-0.0-0.5

Lab Sample ID: 240-97885-85

Date Collected: 06/13/18 13:56

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-01.14-SL06-0.0-0.5

Lab Sample ID: 240-97885-85

Date Collected: 06/13/18 13:56

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 07:22	CSC	TAL CAN

Client Sample ID: ED-01.14-SL06-0.5-1.0

Lab Sample ID: 240-97885-86

Date Collected: 06/13/18 13:58

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-01.14-SL06-0.5-1.0

Lab Sample ID: 240-97885-86

Date Collected: 06/13/18 13:58

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 07:39	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-01.14-SL06-1.0-1.5

Lab Sample ID: 240-97885-87

Date Collected: 06/13/18 14:12

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-01.14-SL06-1.0-1.5

Lab Sample ID: 240-97885-87

Date Collected: 06/13/18 14:12

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 07:56	CSC	TAL CAN

Client Sample ID: ED-00.31-SL01-0.0-1.0

Lab Sample ID: 240-97885-89

Date Collected: 06/14/18 12:13

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.31-SL01-0.0-1.0

Lab Sample ID: 240-97885-89

Date Collected: 06/14/18 12:13

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		20	335388	07/10/18 08:31	CSC	TAL CAN

Client Sample ID: ED-00.31-SL01-1.0-2.0

Lab Sample ID: 240-97885-90

Date Collected: 06/14/18 12:15

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.31-SL01-1.0-2.0

Lab Sample ID: 240-97885-90

Date Collected: 06/14/18 12:15

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 08:48	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.33-SL01-0.0-0.7

Lab Sample ID: 240-97885-94

Date Collected: 06/14/18 12:20

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.33-SL01-0.0-0.7

Lab Sample ID: 240-97885-94

Date Collected: 06/14/18 12:20

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 09:06	CSC	TAL CAN

Client Sample ID: ED-00.33-SL01-0.7-1.6

Lab Sample ID: 240-97885-95

Date Collected: 06/14/18 12:25

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.33-SL01-0.7-1.6

Lab Sample ID: 240-97885-95

Date Collected: 06/14/18 12:25

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 09:23	CSC	TAL CAN

Client Sample ID: ED-00.33-SL01-1.6-2.3

Lab Sample ID: 240-97885-96

Date Collected: 06/14/18 12:27

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.33-SL01-1.6-2.3

Lab Sample ID: 240-97885-96

Date Collected: 06/14/18 12:27

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 09:41	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.23-SL01-0.0-0.7

Lab Sample ID: 240-97885-99

Date Collected: 06/14/18 12:51

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.23-SL01-0.0-0.7

Lab Sample ID: 240-97885-99

Date Collected: 06/14/18 12:51

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		10	335388	07/10/18 11:25	CSC	TAL CAN

Client Sample ID: ED-00.23-SL01-1.2-2.0

Lab Sample ID: 240-97885-100

Date Collected: 06/14/18 12:56

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.23-SL01-1.2-2.0

Lab Sample ID: 240-97885-100

Date Collected: 06/14/18 12:56

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 11:42	CSC	TAL CAN

Client Sample ID: ED-00.29-SL01-0.0-0.7

Lab Sample ID: 240-97885-103

Date Collected: 06/14/18 13:32

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.29-SL01-0.0-0.7

Lab Sample ID: 240-97885-103

Date Collected: 06/14/18 13:32

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		10	335388	07/10/18 12:00	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Civil & Environmental Consultants Inc
 Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Client Sample ID: ED-00.29-SL01-0.7-1.7

Lab Sample ID: 240-97885-104

Date Collected: 06/14/18 13:34

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.29-SL01-0.7-1.7

Lab Sample ID: 240-97885-104

Date Collected: 06/14/18 13:34

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 12:17	CSC	TAL CAN

Client Sample ID: ED-00.29-SL01-1.7-2.7-FD

Lab Sample ID: 240-97885-105

Date Collected: 06/14/18 13:36

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.29-SL01-1.7-2.7-FD

Lab Sample ID: 240-97885-105

Date Collected: 06/14/18 13:36

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 74.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 13:27	CSC	TAL CAN

Client Sample ID: ED-00.36-SL01-1.0-1.5

Lab Sample ID: 240-97885-106

Date Collected: 06/14/18 10:51

Matrix: Solid

Date Received: 06/27/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	334355	07/02/18 15:45	LKG	TAL CAN

Client Sample ID: ED-00.36-SL01-1.0-1.5

Lab Sample ID: 240-97885-106

Date Collected: 06/14/18 10:51

Matrix: Solid

Date Received: 06/27/18 09:50

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			335042	07/06/18 14:06	AMT	TAL CAN
Total/NA	Analysis	8082A		1	335388	07/10/18 08:14	CSC	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-97885-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-18 *
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18
Minnesota	NELAP	5	039-999-348	12-31-18
Minnesota (Petrofund)	State Program	1	3506	07-31-18 *
Nevada	State Program	9	OH-000482008A	07-31-18 *
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-18 *
Texas	NELAP	6	T104704517-17-9	08-31-18 *
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18 *
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

TestAmerica Canton
 4101 Shuffel Street NW
 North Canton, OH 44720
 Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

11.2/C11.2
 13.4/C13.4

Client Information
 Client Contact: Greg Schwartz
 Phone: 808 268-4981
 Email: dominic.nestiasie@testamericainc.com

Lab P/N: Nestiasie, Dominic J
 Lab P/N: Greg Schwartz
 Phone: 808 268-4981
 Email: dominic.nestiasie@testamericainc.com

Carrier Tracking No(s):
 COC No: 240-52180-22484.2
 Page: 2 of 4
 Job #:

Analysis Requested
 8082A - PCBs 7 Analytes
 8082A - Moisture
 Perform MS/MSD (Yes or No)
 Field Filtered Sample (Yes or No)

Live Date Requested:
 TAT Requested (days):
 PO #:
 Purchase Order Requested
 WO #:
 172-367
 Project #:
 24019083
 SSOW #:

Site: Elliott Ditch Lafayette, IN

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weather, Soil, Overstabil, BT-Tissue, Air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs 7 Analytes	8082A - Moisture	Total Number of Containers	Special Instructions/Note:
ED-00.51-SL06-1.5-2.0-FD	6/16/18	1647	G	S	S	X	X	X	X	1	Hold CS
ED-00.51-SL06-1.0-2.0	6/16/18	1640	G	S	S	X	X	X	X	1	Hold CS
ED-00.51-SL06-1.5-2.0	6/16/18	1647	G	S	S	X	X	X	X	1	Hold CS
ED-01.14-SL01-0.5-1.0	6/15/18	1812	G	S	S	X	X	X	X	1	Hold CS
ED-01.14-SL01-1.0-1.5	6/15/18	1817	G	S	S	X	X	X	X	1	Hold CS
ED-01.14-SL01-1.0-1.5	6/15/18	1817	G	S	S	X	X	X	X	1	Hold CS
ED-01.14-SL01-1.5-2.0-FD	6/15/18	1820	G	S	S	X	X	X	X	1	Hold CS
ED-01.14-SL01-1.5-2.0	6/15/18	1820	G	S	S	X	X	X	X	1	Hold CS
ED-01.14-SL05-0.0-0.5	6/15/18	1826	G	S	S	X	X	X	X	1	Hold CS
ED-01.14-SL05-0.5-1.0	6/15/18	1827	G	S	S	X	X	X	X	1	Hold CS
ED-01.14-SL05-1.5-2.0	6/15/18	1832	G	S	S	X	X	X	X	1	Hold CS

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/OC Requirements:

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 6/14/18 16:15/18 Company: CEE
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Method of Shipment: FedEx Cooler A
 Date/Time: 6/27/18 9:50 Company: TAL
 Date/Time: _____ Company: _____
 Date/Time: _____ Company: _____

Custody Seal No.: _____
 Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record

Client Information Client Contact: <u>Greg Schwartz</u> Company: <u>Civil & Environmental Consultants Inc</u> Address: <u>2704 Cherokee Farm Way, Suite 101</u> City: <u>Knoxville</u> State, Zip: <u>TN, 37920</u> Phone: <u>615-309-1966(Tel)</u> Email: <u>gschwartz@cecinc.com</u> Project Name: <u>Arconic, Inc. - Elliott Ditch</u> Site: <u>Lafayette, IN</u>		Lab PM: <u>Nestlasie, Dominic J</u> E-Mail: <u>dominic.nestlasie@testamericainc.com</u> Sampler: <u>Greg Schwartz</u> Phone: <u>303-268-4441</u>		Carrier Tracking No(s): COC No: <u>240-52180-22484.3</u> Page: <u>65</u> Page # of # <u>119/118</u> <u>R.F.I.</u> Job #:	
Due Date Requested: TAT Requested (days): <u>6/14/16</u> <u>14</u>		Analysis Requested			
PO #: <u>172-367</u> WO #: <u>172-367</u> Project #: <u>24019083</u> SOW #:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:			
Sample Identification <u>ED-0114-8205-1.0-1.5</u> <u>ED-0000-8203-3.4-4.0</u> <u>ED-0000-8203-2.5-3.4</u> <u>ED-0000-8203-1.7-2.5</u> <u>ED-0000-8203-0.9-1.7</u> <u>ED-0000-8203-0.0-0.9</u> <u>ED-0000-8204-0.0-0.9</u> <u>ED-0000-8204-0.9-1.0</u> <u>ED-0000-8204-0.0-0.9-ED</u> <u>ED-0000-8204-1.8-2.7</u> <u>ED-0000-8204-2.7-3.6</u>		Sample Date <u>6/15/16</u> <u>6/14/16</u> <u>6/14/16</u> <u>6/14/16</u> <u>6/14/16</u> <u>6/14/16</u> <u>6/14/16</u> <u>6/14/16</u> <u>6/14/16</u>		Sample Time <u>1830</u> <u>1557</u> <u>1555</u> <u>1552</u> <u>1550</u> <u>1547</u> <u>1610</u> <u>1615</u> <u>1610</u> <u>1619</u> <u>1621</u>	
Matrix (W=water, S=solid, O=oil, A=air) (B=Tissue, M=MSD) S S S S S S S S S S		Sample Type (C=Comp, G=grab) G G G G G G G G G G		Field Filtered Sample (Yes or No) N N N N N N N N N N N	
Perform MS/MSD (Yes or No) N N N N N N N N N N		8082A - PCBs 7 Arcofols X X X X X X X X X X		Total Number of Containers X X X X X X X X X X X	
Special Instructions/Note: Hold Hold MS/MSD S Hold		Special Instructions/OC Requirements: Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Method of Shipment: <u>Fed Ex Cooler A</u> Date/Time: <u>6/14/16 1310</u> Company: <u>CEC</u> Received by: <u>[Signature]</u> Date/Time: <u>6/22/16 900</u> Company: <u>[Signature]</u> Received by: <u>[Signature]</u> Date/Time: <u>[Signature]</u> Company: <u>[Signature]</u>			
Empty Kit Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u>		Cooler Temperature(s) °C and Other Remarks:			

Chain of Custody Record

Client Information		Sampler: Greg Schwartz		Lab PM: Nestasia, Dominic J		COC No: 240-52180-22484.4				
Client Contact: Greg Schwartz		Phone: 808-268-4551		E-Mail: dominic.nestasia@testamericainc.com		Page: 3 of 11				
Company: Civil & Environmental Consultants Inc		Address: 2704 Cherokee Farm Way Suite 101		City: Knoxville		State: TN, 37920				
Phone: 513-309-1966(Tel)		PO #: 10		Purchase Order Requested: 10		Job #: 3 of 11				
Email: gschwartz@ccecinc.com		WO #: 172-367		Project #: 24019083		Preservation Codes:				
Site: Lehigh, TN		SSOW#:		Matrix (W=water, S=solid, O=soil, BT=biological, A=air)		A - HCL M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)				
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A, PCBS 7 Analytes	8082A, Moisture	Analysis Requested	Carrier Tracking Net(s)	Special Instructions/Note:
ED-00.17-SL02-6.0-0.8-FD	6/14/18	1520	G	N	N	X	X			
ED-00.17-SL02-0.0-0.8-	6/14/18	1520	G	N	N	X	X			
ED-00.17-SL02-0.8-1.8	6/14/18	1522	G	N	N	X	X			
ED-00.17-SL02-1.8-2.8	6/14/18	1524	G	N	N	X	X			
ED-00.17-SL02-2.8-3.8	6/14/18	1526	G	N	N	X	X			
ED-00.41-SL01-0.0-0.5	6/14/18	1003	G	N	N	X	X			
ED-00.41-SL01-1.0-1.5	6/14/18	1006	G	N	N	X	X			
ED-00.41-SL01-1.5-2.0	6/14/18	1008	G	N	N	X	X			
ED-00.41-SL01-2.0-2.5	6/14/18	1010	G	N	N	X	X			
ED-00.41-SL01-2.5-3.0	6/14/18	1012	G	N	N	X	X			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological										
Deliverable Requested: <input type="checkbox"/> I, II, III, IV, Other (specify) <input type="checkbox"/>										
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seals Intact: _____ Custody Seal No.: _____ A Yes Δ No										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
Special Instructions/QC Requirements:										
Method of Shipment: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Cooler Temperature(s) °C and Other Remarks: _____										



Chain of Custody Record

Client Information		Sampler: Greg Schwartz		Lab PM: Nestasis, Dominic J		Carrier Tracking No(s):		GOC No: 240-52180-22484.5	
Client Contact: Greg Schwartz		Phone: 808 268-4981		E-Mail: dominic.nestasis@testamericainc.com				Page: 4 of 11	
Company: Civil & Environmental Consultants Inc		Address: 2704 Cherokee Farm Way Suite 101		City: Knoxville		State: TN		Zip: 37920	
Phone: 513-309-1966(Tel)		PO #: 10		Purchase Order Requested		WO #:		Project #:	
Email: gschwartz@cecinc.com		172-367		Project #:		24019083		SSOW#:	
Site: Elliot Ditch, Lefflyth, TN		Due Date Requested:		TAT Requested (days):		8082A - PCBs 7 Analytes		8082A - Moisture	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	
ED-00.19-8L01-1.8-2.3	ED-00.19-8L01-1.8-2.3	6/14/18	1016	G	S	N	N	Total Number of containers	
ED-00.19-8L01-1.8-2.3	ED-00.19-8L01-1.8-2.3	6/14/18	1446	G	S	X	X	Preservation Codes:	
ED-00.19-8L01-1.5-1.8	ED-00.19-8L01-1.5-1.8	6/14/18	1446	G	S	X	X	A - HCL M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify)	
ED-00.19-8L01-0.0-0.9	ED-00.19-8L01-0.0-0.9	6/14/18	1440	G	S	X	X	Special Instructions/Note:	
ED-00.19-8L01-0.8-1.5	ED-00.19-8L01-0.8-1.5	6/14/18	1442	G	S	X	X	Held	
ED-00.19-8L01-0.8-1.5	ED-00.19-8L01-0.8-1.5	6/14/18	1442	G	S	X	X	MS/MSD	
ED-00.19-8L01-1.8-2.3	ED-00.19-8L01-1.8-2.3	6/14/18	1448	G	S	X	X	Held	
ED-00.19-8L01-2.3-3.5	ED-00.19-8L01-2.3-3.5	6/14/18	1450	G	S	X	X	Held	
ED-00.19-8L01-3.5-4.0	ED-00.19-8L01-3.5-4.0	6/14/18	1453	G	S	X	X	Held	
ED-00.21-8L01-0.0-1.0	ED-00.21-8L01-0.0-1.0	6/14/18	1456	G	S	X	X	Held	
ED-00.21-8L01-1.0-2.0	ED-00.21-8L01-1.0-2.0	6/14/18	1458	G	S	X	X	Held	
Possible Hazard Identification									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological									
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by: _____ Date: _____									
Relinquished by: Greg Schwartz / Greg W Date: 6/15/18 - 6/14/18 ¹³¹⁰									
Relinquished by: _____ Date: _____									
Relinquished by: _____ Date: _____									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Custody Seal No.:									
Special Instructions/QC Requirements: Held any sample taken > 2.0									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Method of Shipment: Fed Ex Cooler A									
Received by: POP Date/Time: 6/15/18 950 Company: TAC									
Received by: _____ Date/Time: _____ Company: _____									
Received by: _____ Date/Time: _____ Company: _____									
Cooler Temperature(s) °C and Other Remarks:									

Chain of Custody Record

Client Information Client Contact: Greg Schwartz Phone: 866-268-4981 Company: Civil & Environmental Consultants Inc Address: 2704 Cherokee Farm Way Suite 101 City: Knoxville State, Zip: TN, 37920 Phone: 513-309-1966(Tel) Email: gschwartz@cecinc.com Project Name: Arconic, Inc. - Elliott Ditch Site: Elliott Ditch, Lafayette, IN		Lab PM: Nestlasie, Dominic J E-Mail: dominic.nestlasie@testamericainc.com Carrier Tracking No(s): COC No: 240-52180-22484.6 Page: 5 of 11 Job #:				
Due Date Requested: TAT Requested (days): 10 PO #: Purchase Order Requested WO #: 172-367 Project #: 24019083 SSOW#:		Analysis Requested 8082A - PCBs 7 Analyzers 8082A, Moisture Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)				
Sample Identification ED-00.21-SL01-1.0-2.0-FD ED-00.21-SL01-2.0-2.9-2.5-FD ED-00.21-SL01-2.9-3.8 ED-00.27-SL01-0.0-1.0 ED-00.27-SL01-1.0-1.5-1.9 ED-00.27-SL01-1.9-2.8 ED-00.27-SL01-2.8-3.7 ED-00.23-SL01-0.7-1.2 ED-00.23-SL01-0.7-1.2-FD ED-00.23-SL01-2.0-2.9 ED-00.23-SL01-2.9-3.5	Sample Date 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18 6/14/18	Sample Time 1458 1459 1503 1339 1341 1343 1345 1255 1255 1310 1315	Sample Type (C=comp, G=grab) G G G G G G G G G G G G	Matrix (W=water, S=solid, O=wastewater, BT=bitumen, A=air) S S S S S S S S S S S S	Preservation Code: N Y X X X X X X X X X X X	Special Instructions/Note: Hold Hold Hold Hold Hold Hold
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify)				
Empty Kit Relinquished by:		Date:				
Relinquished by:		Date/Time: 6/25/18 13:10 Company: CEC				
Relinquished by:		Date/Time: 6/25/18 13:10 Company: CEC				
Relinquished by:		Date/Time:				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Method of Shipment: FEDEX Cooler A Date/Time: 6/27/18 9:00 Company: TAC				

Chain of Custody Record

Client Information Client Contact: Greg Schwartz Phone: 800-268-4981 Company: Civil & Environmental Consultants Inc Address: 2704 Cherokee Farm Way Suite 101 City: Knoxville State, Zip: TN, 37920 Phone: 513-309-1966(Tel) Email: gschwartz@cecinc.com Project Name: Arconic, Inc. - Elliott Ditch Site: Lafayette, IN		Lab PM: Nestasie, Dominic J E-Mail: dominic.nestasie@testamericainc.com Carner Tracking No(s): COC No: 240-52180-22484.7 Page: 6 of 11 Page: 7 of 11 Job #: 6 of 11	
Due Date Requested: TAT Requested (days): PO #: Purchase Order Requested WO #: Project #: SSOW#:		Analysis Requested Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) 8082A, Moisture 8082A - PCBs 7 Analytes Total Number of Containers:	
Sample Identification ED-00.44-SL01-3.0-3.5 ED-00.44-SL01-3.5-4.0 ED-01.14-SL06-1.0-1.5 ED-01.14-SL04-0.5-1.0 ED-01.14-SL04-1.5-1.8 ED-01.14-SL04-1.0-1.5 ED-01.14-SL04-0.0-0.5 ED-00.36-SL01-0.9-1.0 ED-00.36-SL01-0.9-1.7 ED-00.36-SL01-0.4-1.0-FO ED-00.36-SL01-0.0-0.4		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsKAO2 P - NaZOH5 Q - NaZSO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify)	
Sample Date 6/14/18 1151 6/14/18 1151 6/15/18 1825 6/15/18 1838 6/15/18 1840 6/15/18 1835 6/15/18 1830 6/14/18 1058 6/14/18 1550 6/14/18 1050 6/14/18 1050		Matrix (W=Water, S=Solid, D=Digestion, BT=Tissue, Ar=Air) S S S S S S S S S S	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/Note: H2O H2O CS CS	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/OC Requirements:		Method of Shipment: Fed Ex Cooler B Date/Time: 6/27/18 900 Date/Time: Company: TBC Date/Time: Company:	
Empty Kit Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: Relinquished by:		Date: 6/25/18 - 1310 Date/Time: Company: Date/Time: Company: Date/Time: Company:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:	

Chain of Custody Record

Client Information		Sampier: Greg Schwartz		Lab P/N: Nestastie, Dominic J		Carrier Tracking No(s)		COC No: 240-52180-22484.7	
Client Contact: Greg Schwartz		Phone: 800-266-181		E-Mail: dominic.nestastie@testamericainc.com				Page: 6/19/16	
Company: Civil & Environmental Consultants Inc		Address: 2704 Cherokee Farm Way Suite 101		City: Knoxville		State, Zip: TN, 37920		Job #: 7.011	
Phone: 513-309-1966(Tel)		Due Date Requested:		TAT Requested (days): 10					
Email: gschwartz@cecinc.com		Purchase Order Requested		FO #: 172-367					
Project Name: Arocloric, Inc. - Elliott Ditch		Project #: 24019083		SSOW#:					
Site: Elliott Ditch Lafayette, TN									

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, A=air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8082A - PCBs 7 Aroclors		Special Instructions/Note:
					Field Filtered	MS/MSD	Field Filtered	MS/MSD	Field Filtered	MS/MSD	
ED-00.17 - SLO2 - 1.8 - 2.8 - FD	6/14/18	1524	C	S	X	N	X	N	X	N	
ED-00.41 - SLO1 - 3.0 - 3.7	6/14/18	1524	C	S	X	N	X	N	X	N	Hold
ED-00.36 - SLO1 - 1.5 - 2.0	6/14/18	1050	C	S	X	N	X	N	X	N	Hold
ED-00.41 - SLO1 - 0.5 - 1.0	6/14/18	1005	C	S	X	N	X	N	X	N	Hold
ED-00.36 - SLO1 - 3.5 - 4.0	6/14/18	1105	C	S	X	N	X	N	X	N	Hold
ED-00.36 - SLO1 - 1.5 - 2.0 - FD	6/14/18	1050	C	S	X	N	X	N	X	N	Hold
ED-00.36 - SLO1 - 0.4 - 1.0	6/14/18	1055	C	S	X	N	X	N	X	N	Hold
ED-00.19 - SLO1 - 1.8 - 2.5 - FD	6/14/18	1448	C	S	X	N	X	N	X	N	Hold
ED-00.33 - SLO1 - 2.3 - 3.1 - FD	6/14/18	1230	C	S	X	N	X	N	X	N	Hold
ED-00.36 - SLO1 - 2.0 - 2.5	6/14/18	1050	C	S	X	N	X	N	X	N	Hold
ED-00.36 - SLO1 - 2.5 - 3.5	6/14/18	1059	C	S	X	N	X	N	X	N	Hold

Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input type="checkbox"/> Radiological	
Deliverable Requested: I, II, III, IV, Other (specify)													
Empty Kit Relinquished by:		Date:		Date:		Date:		Date:		Date:		Date:	
Relinquished by: Greg Schwartz		Date/Time: 6/25/18 1330		Company: CEC		Received by: BBP		Date/Time: 6/27/18		Company: TAC		Method of Shipment: FedEx Color B	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		Cooler Temperature(s) °C and Other Remarks:	

Chain of Custody Record

Client Information		Lab PM		Carrier/Tracking Not(s)		COC No:				
Company: Civil & Environmental Consultants Inc		Nestlasie, Dominic J				240-52180-22484.7				
Address: 2704 Cherokee Farm Way Suite 101		E-Mail: dominic.nestlasie@testamericainc.com				Page: 6/19/16				
City: Knoxville		Phone: 806 269-4481				Job #: 8 c f (1)				
State, Zip: TN, 37920		Due Date Requested:								
Phone: 513-309-1966(Tel)		TAT Requested (days): 10								
Email: gschwartz@cecinc.com		PO #: Purchase Order Requested								
Project Name: Arconic, Inc. - Elliott Ditch		W/O #: 172-367								
Site: Lafayette IN		Project #: 24019083								
		SSOW#:								
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, D=dustfall, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs 7 Analytes	8082A - PCBs 7 Analytes	Analysis Requested	Special Instructions/Note:
ED-00.29-SL01-1.7-2.7	6/14/18	1336	G	S	N	N	X	X		Hold
ED-00.29-SL01-2.7-3.7	6/14/18	1338	G	S	N	X	X	X		Hold
ED-00.52-SL03-1.5-2.0	6/18/18	1745	G	S	N	X	X	X		
ED-00.44-SL01-0.0-0.5	6/14/18	1120	G	S	N	X	X	X		
ED-00.44-SL01-0.5-1.0	6/14/18	1122	G	S	N	X	X	X		
ED-00.44-SL01-1.0-1.5	6/14/18	1127	G	S	N	X	X	X		
ED-00.44-SL01-1.5-1.8	6/14/18	1134	G	S	N	X	X	X		
ED-00.44-SL01-1.8-2.0	6/14/18	1140	G	S	N	X	X	X		
ED-00.44-SL01-2.0-2.5	6/14/18	1143	G	S	N	X	X	X		
ED-00.44-SL01-1.5-1.9	6/14/18	1134	G	S	N	X	X	X		
ED-00.44-SL01-2.5-3.0	6/14/18	1148	G	S	N	X	X	X		
Possible Hazard Identification										
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological										
Deliverable Requested: I, II, III, IV, Other (specify)										
Empty Kit Relinquished by:										
Relinquished by: <i>[Signature]</i> Date: 6/15/18 12:10										
Relinquished by: Company: CEC										
Relinquished by: Company: Company										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No										
Custody Seal No.:										
Special Instructions/OC Requirements:										
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										
Method of Shipment: Fed Ex Cooler B										
Date/Time: 6-27-18 9:50										
Company: TEL										
Date/Time:										
Company:										
Date/Time:										
Company:										
Cooler Temperature(s) °C and Other Remarks:										

Chain of Custody Record

Client Information Client Contact: Greg Schwartz Phone: 608-266-4981 Lab PM: Nestasie, Dominic J E-Mail: dominic.nestasie@testamericainc.com		Carrier Tracking No(s): ICC No: 240-52180-22484.7 Page: 7 of 18 Date: 6/14/18 Job #: 2011								
Company: Civil & Environmental Consultants Inc Address: 2704 Cherokee Farm Way Suite 101 City: Knoxville State, Zip: TN, 37920 Phone: 513-309-1966(Tel) Email: gschwartz@cecinc.com Project Name: Arconic, Inc. - Elliott Ditch Site: Elliott Ditch Lafayette, IN		Analysis Requested Due Date Requested: TAT Requested (days): 14 PO #: Purchase Order Requested WO #: 172-367 Project #: 24019083 SSO#:								
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=organic, B=trace, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs 7 Aroclors	8082A - PCBs 7 Aroclors	Total Number of Containers	Special Instructions/Note:
ED-01.14-SL06-0.0-0.5	6/13/18	1756	G	S	N	X	N	X		
ED-01.14-SL06-0.5-1.0	6/13/18	1358	G	S	N	X	X	X		
ED-01.14-SL06-1.0-1.5	6/13/18	1412	G	S	N	X	X	X		
ED-01.14-SL06-1.5-2.0	6/13/18	1430	G	S	N	X	X	X		Hold
ED-00.31-SL01-0.0-1.0	6/14/18	1213	G	S	N	X	X	X		
ED-00.31-SL01-1.0-2.0	6/14/18	1215	G	S	N	X	X	X		Hold
ED-00.31-SL01-1.0-2.0-FD	6/14/18	1215	G	S	N	X	X	X		Hold
ED-00.31-2.0-2.0-SL01-2.0-2.8	6/14/18	1217	G	S	N	X	X	X		
ED-00.31-SL01-2.8-3.8	6/14/18	1219	G	S	N	X	X	X		
ED-00.33-SL01-0.0-0.7	6/14/18	1220	G	S	N	X	X	X		
ED-00.33-SL01-0.7-1.6	6/14/18	1225	G	S	N	X	X	X		
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological										
Deliverable Requested: I, II, IV, Other (specify)										
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date/Time: 6/25/18 - 1310 Company: CEC Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks:										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:										
Method of Shipment: Fed Ex Cooler B Day/Time: 6/27-18 950 Company: TAC Date/Time: _____ Company: _____ Date/Time: _____ Company: _____										



TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Greg Schwartz Phone: 800 268-4181 Company: Civil & Environmental Consultants Inc Address: 2704 Cherokee Farm Way, Suite 101 City: Knoxville State, Zip: TN, 37920 Phone: 513-309-1966(Tel) Email: gschwartz@cecinc.com Project Name: Arconic, Inc. - Elliott Ditch Site: Lafayette IN		Lab PM: Nestasie, Dominic J E-Mail: dominic.nestasie@testamericainc.com Carrier Tracking No(s): Lab #: Job #: CEC No: 240-52180-22484.7 Page: 6 of 16 Page 7 of 16	
Due Date Requested: TAT Requested (days): 10 PO #: Purchase Order Requested WO #: 172-367 Project #: 24019083 SOW #:		Analysis Requested Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8082A - PCBS 7 Aroclors 8082A - PCBS 7 Aroclors	
Sample Date Sample Time Sample Date Sample Time Sample Date Sample Time Sample Date Sample Time Sample Date Sample Time		Matrix Preservation Code Preservation Codes: M - Hexane N - None O - AsNaO2 P - NiZnOAS Q - NiZSO3 R - NiZSO3 S - H2SO4 G - Amchlor H - Ascorbic Acid I - Ipa J - DI Water K - EDTA L - EDA Z - other (specify)	
Sample Identification ED-00.33 - SL01 - 1.6-2.3 ED-00.33 - SL01 - 2.3-3.1 ED-00.33 - SL01 - 3.1-4.0 ED-00.23 - SL01 - 0.7-1.2 ED-00.23 - SL01 - 1.2-2.0 ED-00.23 - SL01 - 2.0-2.6 ED-00.23 - SL01 - 3.5-4.0 ED-00.29 - SL01 - 0.0-0.7 ED-00.29 - SL01 - 0.7-1.7 ED-00.29 - SL01 - 1.7-2.7-FO		Special Instructions/Note: Hold any sample > 2.0' depth Hold Hold Hold Hold Hold Hold Hold	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by: Relinquished by: Greg Schwartz / Greg Schwartz Date/Time: 6/25/16 1310 Date/Time: 6/27/16 900 Date/Time:		Method of Shipment: Express Cooler B Received by: PDP Received by: PDP Received by:	
Custody Seal No.: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	

MSD
ED-00.33
SL01

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Ver: 08/04/2016

Chain of Custody Record

Client Information Client Contact: <u>Greg Schwartz</u> Phone: <u>888-266-4181</u> Company: <u>Civil & Environmental Consultants Inc</u> Address: <u>2704 Cherokee Farm Way Suite 101</u> City: <u>Knoxville</u> State, Zip: <u>TN, 37920</u> Phone: <u>513-309-1966(Tel)</u> Email: <u>gschwartz@cecinc.com</u> Project Name: <u>Arconic, Inc. - Elliott Ditch</u> Site: <u>Celeryville, TN</u>		Lab P.M.: <u>Nestlasie, Dominic J</u> E-Mail: <u>dominic.nestlasie@testamericainc.com</u> Carrier Tracking No(s): COC No: <u>240-52180-22484.7</u> Page: <u>63/116</u> Job #: <u>U.F.11</u>	
Analysis Requested Due Date Requested: TAT Requested (days): <u>10</u> PO #: <u>172-367</u> Purchase Order Requested WO #: <u>24019083</u> Project #: <u>172-367</u> SSOV#:		Total Number of Containers: _____ Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - H2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (Specify) Other: _____	
Sample Identification ED-00.00-SL03-0.9-17-MSD ED-00.33-SL01-2.5-3.1-MS ED-00.36-SL01-1.5-2.0-MS ED-00.36-SL01-0.4-1.0-MS ED-00.36-SL01-1.0-1.5		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 8082A, Moisture <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 8082A - PCBs / Aroclors <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/Note: <u>Hold</u> <u>Hold</u> <u>Hold</u> <u>Hold</u> <u>Hold</u> <u>Hold</u>	
Empty Kit Relinquished by: Relinquished by: <u>[Signature]</u> Relinquished by: _____ Relinquished by: _____		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/OC Requirements:	
Relinquished by: Date/Time: <u>6/25/18 1318</u> Date/Time: _____ Date/Time: _____		Method of Shipment: <u>Fed Ex Courier</u> Date/Time: <u>6/27/18 950</u> Date/Time: _____ Date/Time: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks:		Company: _____ Company: _____ Company: _____	

TestAmerica Canton Sample Receipt Form/Narrative

Login # : 97805

Canton Facility

Client Civil Eng. & Cons. Site Name _____

Cooler unpacked by: _____

Cooler Received on 6-27-18 Opened on 6-27-18

FedEx: 1st Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # 7A Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None


- 1. Cooler temperature upon receipt See Multiple Cooler Form
 - IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 - IR GUN #36 (CF -0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 - IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1
 - Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 - Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 - Were tamper/custody seals intact and uncompromised? Yes No NA

- 3. Shippers' packing slip attached to the cooler(s)? Yes No
- 4. Did custody papers accompany the sample(s)? Yes No
- 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
- 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- 7. Did all bottles arrive in good condition (Unbroken)? Yes No
- 8. Could all bottle labels be reconciled with the COC? Yes No
- 9. Were correct bottle(s) used for the test(s) indicated? Yes No
- 10. Sufficient quantity received to perform indicated analyses? Yes No
- 11. Are these work share samples? Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

- If yes, Questions 12-16 have been checked at the originating laboratory.
- 12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC740840
- 13. Were VOAs on the COC? Yes No
- 14. Were air bubbles >6 mm in any VOA vials? Yes No NA  Larger than this.
- 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
- 16. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

<u>Listed on COC, but did not rec'd.:</u>	<u>Rec'd not listed on COC.</u>
<u>ED-00.19-SL01-1.8-2.3 @ 1448</u>	<u>ED-00.36-SL01-3.0-3.5 (6.14.18 @ 1050)</u>
<u>ED-01.14-SL06-1.0-1.5 @ 1825</u>	<u>ED-01.14-SL04-15-1.5 FD (6.15.18 @ 1825)</u>
<u>ED-00.36-SL01-0.4-1.0 FD @ 1053</u>	

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TestAmerica Multiple Cooler Receipt Form/Narrative
Canton Facility

Login #: _____

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
TA	8	11.2	11.2	WATER
		13.4	13.4	

X:\X-Drive Document Control\SOPs\Work Instructions\Word Version Work Instructions\WI-NC-099H-071615 Cooler Receipt Form_page 2 - Multiple Coolers.doc xls