
APPENDIX V
LABORATORY ANALYTICAL REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

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Tel: (330)497-9396

TestAmerica Job ID: 240-87591-1

Client Project/Site: Arconic, Inc. - Elliott Ditch

For:

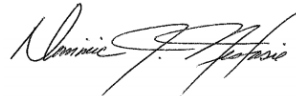
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Authorized for release by:

11/15/2017 2:36:59 PM

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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

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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

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Laboratory: TestAmerica Canton

Narrative

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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

Case Narrative

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

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Laboratory: TestAmerica Canton (Continued)

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

Case Narrative

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

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Laboratory: TestAmerica Canton (Continued)

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).

Case Narrative

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

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Job ID: 240-87591-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

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

Case Narrative

Client: Civil & Environmental Consultants Inc
Project/Site: Arconic, Inc. - Elliott Ditch

TestAmerica Job ID: 240-87591-1

Job ID: 240-87591-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

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-m-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-m-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-m-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- <i>m</i> -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-m-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- <i>m</i> -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-m-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- <i>m</i> -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- <i>m</i> -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- <i>m</i> -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-m-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-m-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- <i>m</i> -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- <i>m</i> -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- <i>m</i> -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-m-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- <i>m</i> -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- <i>m</i> -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

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

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

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: 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	%Rec. Limits
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	%Rec. Limits
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	%Rec. Limits	RPD	RPD Limit
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

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: 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

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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: 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

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
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

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
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
		Added	Result				
Aroclor-1016	1000	634.3		ug/Kg		63	47 - 120
Aroclor-1260	1000	763.9		ug/Kg		76	46 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
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

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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: 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	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	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	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	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	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	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	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	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	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	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

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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: 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		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		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	LCS	LCS	Unit	D	%Rec	Limits
Aroclor-1016	1000	582.6		ug/Kg		58	47 - 120
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
		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
		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
		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

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: 240-87591-5 DU
Matrix: Sediment
Analysis Batch: 302543

Client Sample ID: ED-00.08-SD02-(1.4-2.03')
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Percent Solids	80.3		81.3		%		1	20
Percent Moisture	19.7		18.7		%		5	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: 240-87591-65 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

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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: 240-87591-116 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

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-(0.0-0.5')	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	

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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: 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-(0.0-0.5')	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-SL04-(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

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: Jacqueline Lakoberg		Lab PM: Nestasie, Dominic J		Carrier Tracking Note(s): 4 Coolers		COC No:	
Address: 5988 Montclair Blvd		Phone: 412-584-7176		E-Mail: dominic.nestasie@testamerica.com		Page: Page 1 of 14		Job #:	
City: Cincinnati		State: OH, 45150		Due Date Requested:		Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - NaOH M - Heane N - None O - AsH2O2 P - Na2O4S Q - Na2SO3 R - Na2S2O3	
PO #:		WO #:		TAI Requested (days):		Standard		Special Instructions/Note: 240-87591 Chain of Custody	
Project Name: Arconic, Inc. - Elliott Dile		Project #: 24019083		SSOWN:		Perform MS/MSD (Yes or No)		602A - (MD) PCBs 7 Analytes	
Site:		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix (W=Water, S=Soil, O=Other, A=Air)	
Sample Identification		Field Filtered Sample (Yes or No)		Field Filtration (Yes or No)		602A - (MD) PCBs 7 Analytes		Special Instructions/Note:	
ED-00-08-SD02-(0.0.45)		10/30/17		1120		G S		Sediment sample	
ED-00-08-SD02-(0.45-0.75)		10/30/17		1125		G S		Sediment sample	
ED-00-08-SD02-(0.75-1.4)		10/30/17		1130		C S		Sediment sample	
ED-00-08-SD02-(0.75-1.4)-FD		10/30/17		1130		C S		Sediment sample	
ED-00-08-SD02-(1.4-2.03)		10/30/17		1140		G S		Sediment sample	
ED-00-25-SD01-(0.0.57)		11/1/17		1146		G S		Sediment sample	
ED-00-25-SD01-(0.57-3.51)		11/1/17		1201		G S		Sediment sample	
ED-00-25-SD01-(3.51-4.3)		11/1/17		1219		C S		Sediment sample	
ED-00-25-SD01-(3.51-4.3)-FD		11/1/17		1219		C S		Sediment sample	
ED-00-39-SD02-(0.2.20)		11/1/17		1335		C S		Sediment sample	
ED-00-39-SD02-(0.2.20)-MS		11/1/17		1335		C S		Sediment sample	
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B	
Deliverable Requested: I, II, III, IV, Other (specify)		Unknown		Biological		LCC		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		Archive For: Months	
Retinquished by: [Signature]		11/6/17 0815		LCC		Quick		11-6-17 14:00	
Retinquished by: [Signature]		11-6-17 14:40		Quick		Quick		11/6/17 17:00	
Retinquished by: [Signature]		11-7-17 1000		TA		TA		11-7-17 1000	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Temp-3.4, 3.3, 3.2, 3.0 OF=0		Mo #13			

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Chain of Custody Record

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 487-9396 Fax (330) 497-0772

Client Information		Sampier: Laura Campbell		Lab PM: Nestase, Dominic J	
Client Contact: Jacqueline Lakeberg		Phone: 412-584-7176		E-Mail: dominic.nestase@testamerica.com	
Company: Civil & Environmental Consultants Inc		Due Date Requested:		Carrier Tracking No: 4	
Address: 5988 Montclair Blvd		City: Cincinnati		State: OH	
Zip: 45150		Phone: 513-208-1966 (Tel)		Email: lakeberg@cecinc.com	
Project Name: Arconic, Inc. - Elliott Dile		Project #: 24019083		SSOW#	
Site:		TAI Requester (days):		Standard:	
PO #:		WO #:		Sample Date	
172-367		172-367		Sample Time	
Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
11/1/17		1335		C	
11/1/17		1340		G	
11/1/17		1345		G	
11/1/17		1400		G	
10/30/17		1410		G	
10/30/17		1415		G	
10/30/17		1420		G	
10/30/17		1425		G	
11/1/17		1440		G	
11/1/17		1445		G	
11/1/17		1450		G	
Sample Identification		Sample Date		Sample Time	
ED-00-39-SD02-(0-2.20)-MSD		11/1/17		1335	
ED-00-39-SD02-(2.20-2.41)		11/1/17		1340	
ED-00-39-SD02-(2.41-3.54)		11/1/17		1345	
ED-00-39-SD02-(3.54-4.30)		11/1/17		1400	
ED-00-47-SD02-(0-0.33)		10/30/17		1410	
ED-00-47-SD02-(0.33-1.46)		10/30/17		1415	
ED-00-47-SD02-(1.46-1.96)		10/30/17		1420	
ED-00-47-SD02-(1.96-3.13)		10/30/17		1425	
ED-00-51-SD02-(0-0.36)		11/1/17		1440	
ED-00-51-SD02-(0.36-0.68)		11/1/17		1445	
ED-00-51-SD02-(0.68-1.65)		11/1/17		1450	
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable	
<input type="checkbox"/> Deliverable Requested I, II, III, IV, Other (specify)		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B	
<input type="checkbox"/> Empty Kit Reinquished by		<input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> Radiological	
Retrieved by: <i>[Signature]</i>		Date: 11/6/17		Time: 0815	
Retrieved by: <i>[Signature]</i>		Date/Time: 11-6-17 1440		Company: CEC	
Retrieved by: <i>[Signature]</i>		Date/Time: 11-7-17 1000		Company: TA	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Special Instructions/OC Requirements:	
				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	



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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: <u>Jacqueline Lakeberg</u> Company: <u>Civil & Environmental Consultants Inc</u> Address: <u>5988 Montclair Blvd</u> City: <u>Cincinnati</u> State: <u>OH</u> Zip: <u>45150</u> Phone: <u>513-209-1966 (Tel)</u> Email: <u>lakeberg@cecinc.com</u> Project Name: <u>Arconic, Inc. - Elliott Ditch</u> Site: _____		Lab P/W: <u>Neustasie, Dominic J</u> E-Mail: <u>dominic.neustasie@testamericainc.com</u>		Carrier (Tracking No.): <u>4</u> Page: <u>3</u> of <u>14</u> Job #: _____			
Due Date Requested: TAT Requested (days): _____ PO #: _____ WO #: _____ 172-367 Project #: <u>24019083</u> SSSOW#: _____		Analysis Requested 902A - (MOD) PCBs 7 Analytes: <input checked="" type="checkbox"/> Field Filled Sample (Yes or No): <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> Total Number of Containers: _____					
Sample Identification ED-00 51-SD02-(1.65-1.75) ED-00 60-SD02-(0.1.76) ED-00 60-SD02-(0.1.76)-MS ED-00 60-SD02-(0.1.76)-MSD ED-00 60-SD02-(1.76-2.22) ED-00 60-SD02-(2.22-2.39) ED-00 60-SD02-(2.39-2.63) ED-00 60-SD02-(2.63-3.30) ED-00 72-SD03-(0.2.06) ED-00 72-SD03-(2.06-2.40) ED-00 72-SD03-(2.40-3.50)		Sample Date 11/1/17 10/31/17 10/31/17 10/31/17 10/31/17 10/31/17 10/31/17 10/31/17 10/31/17 10/31/17	Sample Time 1455 1140 1140 1140 1141 1142 1143 1144 1315 1325 1330	Sample Type (C=Comp, G=grab) G C C C G G G G G G C	Matrix (W=Water, S=Soil, O=Organic, A=Asphalt, AA=Asphalt) S S S S S S S S S S	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 - AsAcO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	Special Instructions/Note: Sediment sample Sediment sample Sediment sample Sediment sample Sediment sample Sediment sample Sediment sample Sediment sample Sediment sample Sediment sample Sediment sample
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Skin Sensitizer <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 Special Instructions/QC Requirements: _____					
Deliverable Requested: I, II, III, IV, Other (specify) _____		Empty Kit Requisitioned By: _____ Date: _____ Requisitioned by: <u>Cheryl Kenny</u> Date/Time: <u>11/6/17 08:15</u> Company: _____ Requisitioned by: _____ Date/Time: <u>11-6-17 14:40</u> Company: <u>Quick</u> Requisitioned by: _____ Date/Time: <u>11-7-17 1000</u> Company: <u>TA</u>					
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Method of Shipment: _____					



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 North Canton, OH 44720
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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Company: Civil & Environmental Consultants Inc		Lab PW: Nestase, Dominic J	Carrier (acking Note): 4
Client Contact: Jacqueline Lakeberg		Address: 5988 Montclair Blvd		E-Mail: dominic.nestase@testamericainc.com	Page: 4 of 14
City: Cincinnati		State: OH		Phone: 412-584-7176	Job #:
Zip: 45150		TAT Requested (days):		Preservation Codes:	
Phone: 513-209-1966 (Tel)		PO #:		M - Hezane N - None 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 Z - other (specify)	
Email: lakeberg@cecinc.com		WO #:		Other:	
Project Name: Arconic, Inc - Elliott Dnic		Project #:		Total Number of Containers	
Site:		SSOW#:		Special Instructions/Note:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Dross, etc)	Field Filtered Sample (Yes or No)	902A - (MOD) PCBs 7 Analytes	Perform MS/MSD (Yes or No)	Analysis Requested	Special Instructions/Note
ED-00 72-SD03-(3.50-3.84)	10/31/17	1335	G	S	X	X	X		Sediment sample
ED-00 72-SD03-(3.84-4.05)	10/31/17	1340	G	S	X	X	X		Sediment sample
ED-00 72-SD03-(4.05-4.30)	10/31/17	1345	G	S	X	X	X		Sediment sample
ED-00 72-SD03-(2.40-3.50)-FD	10/31/17	1330	C	S	X	X	X		Sediment sample
ED-00 82-SD02-(0-0.39)	10/31/17	1050	C	S	X	X	X		Sediment sample
ED-00 82-SD02-(0.0.39)-MS	10/31/17	1050	C	S	X	X	X		Sediment sample
ED-00 82-SD02-(0.0.39)-MSD	10/31/17	1050	C	S	X	X	X		Sediment sample
ED-00 82-SD02-(0.39-0.70)	10/31/17	1055	G	S	X	X	X		Sediment sample
ED-01 03-SD02-(0.0.98)	10/30/17	1705	C	S	X	X	X		Sediment sample
ED-01 03-SD02-(0.0.98)-FD	10/30/17	1705	C	S	X	X	X		Sediment sample
ED-01 03-SD02-(0.98-1.65)	10/30/17	1710	C	S	X	X	X		Sediment sample

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 08:5** Company: **Quint**

Relinquished by: *[Signature]* Date/Time: **11-6-17 14:40** Company: **Quint**

Relinquished by: *[Signature]* Date/Time: **11-7-17 10:00** Company: **TA**

Custody Seal No.: **Δ Yes Δ No**



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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 #: 172-367 Project #: 24019083 SSOWN#		Carmer / Recking No(s): Page 5 of 14 Job #			
Sample Identification ED-01 03-SD02-(0.98-1.65)-FD ED-01 03-SD02-(1.65-1.87) ED-01 03-SD02-(1.87-2.25) ED-01 14-SD02-(0-1.05) ED-01 22-SD02-(0-0.17) ED-01 22-SD02-(0.17-0.29) ED-01 37-SD02-(0-0.9) ED-01 49-SD03-(0-0.70)		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 8082A - (MOD) PCBs 7 Analytes <input checked="" type="checkbox"/> Total Number of Containers:			
Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Monomer, Resin, Glycerol, Other)	Preservation Code:	Special Instructions/Note:
10/30/17	1710	C	S		1 Sediment sample
10/30/17	1730	G	S		1 Sediment sample
10/30/17	1735	G	S		1 Sediment sample
11/1/17	0924	G	S		1 Sediment sample
11/1/17	1050	G	S		1 Sediment sample
11/1/17	1055	G	S		1 Sediment sample
11/2/17	0950	G	S		1 Sediment sample
10/31/17	1023	G	S		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"/> 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/Time: 11/6/17 08:15 Date/Time: 11-6-17 14:00 Date/Time: 11-7-17 10:00			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Method of Shipment:			

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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 5988 Montclair Blvd Cincinnati OH 45150		Phone 513-209-1966 (Tel)		Email lakeberg@cecinc.com		Project Name Arconic, Inc. - Elliott Dlc		Site																																																																																																																									
Sampler Laura Campbell		Phone		Lab PM Nestale, Dominic J		E-Mail dominic.nestale@testamericainc.com		Carrier (tracking notes) 4		COC No		Page 6 of 14		Job #																																																																																																																									
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<table border="1"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C-Comp, G-grab)</th> <th>Matrix (Water, Solid, Other)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>602A - (MOD) PCBs 7 Analytes</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>ED-00 82-SL04-(0-0.13')</td> <td>10/31/17</td> <td>1634</td> <td>G</td> <td>S</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td>Soil Sample</td> </tr> <tr> <td>ED-00 82-SL04-(0.13-0.5)</td> <td>10/31/17</td> <td>1635</td> <td>G</td> <td>S</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td>Soil Sample</td> </tr> <tr> <td>ED-00 72-SL01-(0-0.50')</td> <td>10/31/17</td> <td>1405</td> <td>G</td> <td>S</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td>Soil Sample</td> </tr> <tr> <td>ED-00 72-SL01-(0.50-1.0')</td> <td>10/31/17</td> <td>1413</td> <td>G</td> <td>S</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td>Soil Sample</td> </tr> <tr> <td>ED-00 60-SL03-(0-0.89')</td> <td>10/31/17</td> <td>1323</td> <td>C</td> <td>S</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td>Soil Sample</td> </tr> <tr> <td>ED-00 60-SL03-(0-0.89')-MS</td> <td>10/31/17</td> <td>1323</td> <td>C</td> <td>S</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td>Soil Sample</td> </tr> <tr> <td>ED-00 60-SL03-(0-0.89')-MSD</td> <td>10/31/17</td> <td>1323</td> <td>C</td> <td>S</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td>Soil Sample</td> </tr> <tr> <td>ED-00 60-SL03-(0.89-1.0')</td> <td>10/31/17</td> <td>1329</td> <td>G</td> <td>S</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td>Soil Sample</td> </tr> <tr> <td>ED-00 60-SL01-(0-0.19')</td> <td>10/31/17</td> <td>1341</td> <td>G</td> <td>S</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td>Soil Sample</td> </tr> <tr> <td>ED-00 60-SL01-(0.19-1.0')</td> <td>10/31/17</td> <td>1349</td> <td>G</td> <td>S</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td>Soil Sample</td> </tr> <tr> <td>ED-00 51-SL03-(0-0.5')</td> <td>10/31/17</td> <td>1205</td> <td>C</td> <td>S</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td>Soil Sample</td> </tr> </tbody> </table>																Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (Water, Solid, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	602A - (MOD) PCBs 7 Analytes	Total Number of Containers	Special Instructions/Note:	ED-00 82-SL04-(0-0.13')	10/31/17	1634	G	S	X	X	X	1	Soil Sample	ED-00 82-SL04-(0.13-0.5)	10/31/17	1635	G	S	X	X	X	1	Soil Sample	ED-00 72-SL01-(0-0.50')	10/31/17	1405	G	S	X	X	X	1	Soil Sample	ED-00 72-SL01-(0.50-1.0')	10/31/17	1413	G	S	X	X	X	1	Soil Sample	ED-00 60-SL03-(0-0.89')	10/31/17	1323	C	S	X	X	X	1	Soil Sample	ED-00 60-SL03-(0-0.89')-MS	10/31/17	1323	C	S	X	X	X	1	Soil Sample	ED-00 60-SL03-(0-0.89')-MSD	10/31/17	1323	C	S	X	X	X	1	Soil Sample	ED-00 60-SL03-(0.89-1.0')	10/31/17	1329	G	S	X	X	X	1	Soil Sample	ED-00 60-SL01-(0-0.19')	10/31/17	1341	G	S	X	X	X	1	Soil Sample	ED-00 60-SL01-(0.19-1.0')	10/31/17	1349	G	S	X	X	X	1	Soil Sample	ED-00 51-SL03-(0-0.5')	10/31/17	1205	C	S	X	X	X	1	Soil Sample
Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (Water, Solid, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	602A - (MOD) PCBs 7 Analytes	Total Number of Containers	Special Instructions/Note:																																																																																																																														
ED-00 82-SL04-(0-0.13')	10/31/17	1634	G	S	X	X	X	1	Soil Sample																																																																																																																														
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ED-00 60-SL03-(0-0.89')	10/31/17	1323	C	S	X	X	X	1	Soil Sample																																																																																																																														
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ED-00 60-SL03-(0-0.89')-MSD	10/31/17	1323	C	S	X	X	X	1	Soil Sample																																																																																																																														
ED-00 60-SL03-(0.89-1.0')	10/31/17	1329	G	S	X	X	X	1	Soil Sample																																																																																																																														
ED-00 60-SL01-(0-0.19')	10/31/17	1341	G	S	X	X	X	1	Soil Sample																																																																																																																														
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ED-00 51-SL03-(0-0.5')	10/31/17	1205	C	S	X	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																																																																																																																																							
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Relinquished by: <i>[Signature]</i> Date/Time: 11/6/17 0815 Company: _____																																																																																																																																							
Relinquished by: <i>[Signature]</i> Date/Time: 11-8-17 14:00 Company: _____																																																																																																																																							
Relinquished by: <i>[Signature]</i> Date/Time: 11-7-17 1000 Company: TA																																																																																																																																							
Custody Seals Intact: Δ Yes Δ No																																																																																																																																							



TestAmerica Canton
 4101 Shurfel Street NW
 North Canton, OH 44720
 Phone (330) 497-9398 Fax (330) 497-0772

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: Zp OH 45150		Phone: 513-209-1966 (Tel)		Email: llakeberg@cecinc.com		Project Name: Arconic, Inc. - Elliott DfC		Site: 		Due Date Requested: 		TAT Requested (days): 		PO #:		WO #:		Project #:		SSOW#:		Sampler: Laura Campbell		Phone: 		Lab PM: Nestase, Dominic J		E-Mail: dominic.nestase@testamerica.com		Carrier Tracking (Notes): 4		COC No:		Page: 7 of 14		Job #:	
Sample Identification		Sample Date		Sample Time		Sample Type (C-Comp, G-grab)		Matrix (Water, Solid, Dissolved, etc.)		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						1		Soil Sample																											
ED-00 51-SL03-(0.0-0.5)-FD		10/31/17		1205		C S						X						1		Soil Sample																											
ED-00 51-SL01-(0.0-0.5)		10/31/17		1135		G S						X						1		Soil Sample																											
ED-00 51-SL01-(0.5-1.0)		10/31/17		1141		G S						X						1		Soil Sample																											
ED-00 47-SL04-(0.0-0.80)		10/31/17		1046		G S						X						1		Soil Sample																											
ED-00 47-SL03-(0.0-0.77)		10/31/17		1023		C S						X						1		Soil Sample																											
ED-00 47-SL03-(0.0-0.77)-FD		10/31/17		1023		C S						X						1		Soil Sample																											
ED-00 47-SL01-(0.0-0.5)		10/31/17		1004		G S						X						1		Soil Sample																											
ED-00 39-SL04-(0.0-0.50)		10/31/17		0902		G S						X						1		Soil Sample																											
ED-00 39-SL04-(0.50-1.0)		10/31/17		0906		G S						X						1		Soil Sample																											
ED-00 39-SL03-(0.0-0.69)		10/31/17		0931		C 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		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		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: Laura Campbell		Date: 11/6/17 0815		Company: Quick		Date/Time: 11-6-17 14:40		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: TA																									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Relinquished by: Laura Campbell		Date: 11/6/17 0815		Company: Quick		Date/Time: 11-6-17 14:40		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: 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		Lab PM		E-Mail		Carrier Tracking Note		
Company: Civil & Environmental Consultants Inc		Laura Campbell		Nestase, Dominic J		y		
Address: 5968 Montclair Blvd		Phone: _____		E-Mail: dominic.nestase@testamericainc.com		Page 8 of 14		
City: Cincinnati		State: OH		Zip: 45150		Job #		
Phone: 513-209-1966 (Tel)		PO #		WO #		Preservation Codes:		
Email: lakeberg@cecinc.com		172-367		172-367		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amcor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
Project Name: Arcoronic, Inc - Elliott Ditch		Project #		24019083		M - Hexane N - None O - AN/NO2 P - Na2OHS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - 15P Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)		
Site		SSOW#				Total Number of Containers		
Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (Water, Solid, Overstoll, BTX, Toluene, Aro)	Field Filtered Sample (Yes or No)	Perform HSM/MSD (Yes or No)	8082A - (MOD) PCBs 7 Analytes	Special Instructions/Note:
ED-00-39-SL03-(0-0.69)-FD	10/31/17	0831	C	S	X	X	X	Soil Sample
ED-00-39-SL03-(0.69-0.98)	10/31/17	0837	G	S	X	X	X	Soil Sample
ED-00-39-SL03-(0.98-1.17)	10/31/17	0840	G	S	X	X	X	Soil Sample
ED-00-39-SL03-(1.17-1.5)	10/31/17	0844	G	S	X	X	X	Soil Sample
ED-00-39-SL01-(0-0.5)	10/31/17	0811	C	S	X	X	X	Soil Sample
ED-00-39-SL01-(0-0.5)-MS	10/31/17	0811	C	S	X	X	X	Soil Sample
ED-00-39-SL01-(0-0.5)-MSD	10/31/17	0811	C	S	X	X	X	Soil Sample
ED-00-39-SL01-(0.5-1.0)	10/31/17	0817	G	S	X	X	X	Soil Sample
ED-00-25-SL04-(0-0.5)	10/30/17	1454	G	S	X	X	X	Soil Sample
ED-00-25-SL04-(0.5-1.0)	10/30/17	1501	G	S	X	X	X	Soil Sample
ED-00-25-SL04-(1.0-1.5)	10/30/17	1520	G	S	X	X	X	Soil 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

Requisitioned by	Date/Time	Company	Method of Shipment
<i>[Signature]</i>	11/6/17 0815	Company	_____
<i>[Signature]</i>	11-6-17 1440	Company	_____
<i>[Signature]</i>	11-9-17 1000	Company	_____

Custody Seals Intact: Yes No



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 North Canton, OH 44720
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Chain of Custody Record

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Client Information Company: Jacqueline Lakeberg Address: 5988 Montclair Blvd, Cincinnati, OH 45150 Phone: 513-209-1966 (Tel) Email: lakeberg@caescinc.com Project Name: Arconic, Inc. - Elliott Ditch Site: S500WE		Lab PM: Nestasio, Dominic J E-Mail: dominic.nestasio@testamericainc.com		Carrier Tracking No.: 4	
Due Date Requested: TAT Requested (days):		Analysis Requested		Page 9 of 14 Job #	
Standard		Perform MS/MSD (Yes or No)		Preservation Codes: A - HCL, M - Hexane B - NiOH, N - None C - Zn Acetate, O - AmNO2 D - Nitric Acid, P - Na2CO3 E - HNO3, Q - Na2SO4 F - H2SO4, R - NaOH G - Acetone, S - H2SO4 H - Acetic Acid, T - TSP Dodecahydrate I - Ice, U - Acetone J - DI Water, V - MCAA K - EDTA, W - pH 4.5 L - EDA, X - other (specify) Other:	
Sample Identification		Field Filtered Sample (Yes or No)		Total Number of Containers	
Sample Date 10/30/17	Sample Time 1527	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Special Instructions/Note: 1 Soil Sample
Sample Date 10/30/17	Sample Time 1630	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Special Instructions/Note: 1 Soil Sample
Sample Date 10/30/17	Sample Time 1651	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Special Instructions/Note: 1 Soil Sample
Sample Date 10/30/17	Sample Time 1601	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Special Instructions/Note: 1 Soil Sample
Sample Date 10/30/17	Sample Time 1601	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Special Instructions/Note: 1 Soil Sample
Sample Date 10/30/17	Sample Time 1609	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Special Instructions/Note: 1 Soil Sample
Sample Date 10/30/17	Sample Time 1610	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Special Instructions/Note: 1 Soil Sample
Sample Date 10/30/17	Sample Time 1220	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Special Instructions/Note: 1 Soil Sample
Sample Date 10/30/17	Sample Time 1233	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Special Instructions/Note: 1 Soil Sample
Sample Date 10/30/17	Sample Time 1245	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Special Instructions/Note: 1 Soil Sample
Sample Date 10/30/17	Sample Time 1253	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Special Instructions/Note: 1 Soil Sample
Sample Date 10/30/17	Sample Time 1318	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Special Instructions/Note: 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		Special Instructions/QC Requirements:	
Relinquished by: <i>Julia Campbell</i> Date: 11/6/17 08:15 Relinquished by: <i>Carl Z. Kowalski</i> Date: 11-6-17 14:40 Relinquished by: _____ Date: _____		Company: _____ Company: _____ Company: _____		Date/Time: 11-6-17 14:00 Date/Time: 11-6-17 14:00 Date/Time: 11-7-17 1000	
Relinquished by: _____ Date: _____		Company: _____		Company: TA	
Custody Seal No.: _____ Δ Yes Δ No		Custody Seal No.: _____		Company: TA	



Chain of Custody Record

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<p>Client Information Company: Jacqueline Lakeberg Client Contact: Laura Campbell Phone: Nestasie, Dominic J E-Mail: dominic.nestasie@testamericacanton.com</p>		<p>Lab PM Nestasie, Dominic J E-Mail: dominic.nestasie@testamericacanton.com</p>		<p>COC No: Page 10 of 14 Job #</p>	
<p>Company Civil & Environmental Consultants Inc Address: 5988 Montclair Blvd City: Cincinnati State, Zip: OH, 45150 Phone: 513-209-1966 (Tel) Email: lakeberg@cecinc.com Project Name: Arconic, Inc - Elliott Dltc Site:</p>		<p>Due Date Requested: TAT Requested (days): PO #: WD #: 172-367 Project #: 24019083 SSON#:</p>		<p>Carrier Tracking No(s) 4</p>	
<p>Standard</p>		<p>Analysis Requested</p>		<p>Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchoir H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsAcO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pr-4S X - EDA Z - other (specify)</p>	
<p>Sample Identification</p>		<p>Field Filtered Sample (Yes or No)</p>		<p>Total Number of Containers</p>	
<p>Sample Date</p>		<p>Sample Time</p>		<p>Sample Matrix (W=Water, S=Soil, O=Organic, M=Metal, A=Asbestos, B=Biological, P=Particulate) Preservation Code:</p>	
<p>ED-00-08-SL04-(0.67-0.86')</p>		<p>10/30/17 1327</p>		<p>X</p>	
<p>ED-00-08-SL04-(0.86-1.36')</p>		<p>10/30/17 1339</p>		<p>X</p>	
<p>ED-00-08-SL04-(1.5-2.0')</p>		<p>10/30/17 1344</p>		<p>X</p>	
<p>ED-00-08-SL01-(0-0.5')</p>		<p>10/30/17 1107</p>		<p>X</p>	
<p>ED-00-08-SL01-(0-0.5')-MS</p>		<p>10/30/17 1107</p>		<p>X</p>	
<p>ED-00-08-SL01-(0-0.5')-MSD</p>		<p>10/30/17 1107</p>		<p>X</p>	
<p>ED-00-08-SL01-(0.5-1.0')</p>		<p>10/30/17 1116</p>		<p>X</p>	
<p>ED-00-08-SL01-(1.0-1.86')</p>		<p>10/30/17 1122</p>		<p>X</p>	
<p>ED-00-08-SL01-(1.86-2.0')</p>		<p>10/30/17 1134</p>		<p>X</p>	
<p>ED-01-37-SL02-(0-0.27')</p>		<p>11/21/17 0925</p>		<p>X</p>	
<p>ED-01-37-SL02-(0.27-0.92')</p>		<p>11/21/17 0926</p>		<p>X</p>	
<p>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</p>		<p>Special Instructions/Note:</p>		<p>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</p>	
<p>Deliverable Requested I, II, III, IV, Other (specify)</p>		<p>Empty Kit Relinquished by: Relinquished by: [Signature] Date: 11/6/17 Time: 5:18:00 PM Company: Quick Relinquished by: [Signature] Date: 11-6-17 14:40 Company: Quick Relinquished by: [Signature] Date/Time: Company:</p>		<p>Method of Shipment Date/Time: 11-17 14:00 Company: Quick Date/Time: 11-17 17:00 Company: LAP Date/Time: 11-21 10:00 Company: TA</p>	
<p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		<p>Custody Seal No.:</p>		<p>Special Instructions/QC Requirements:</p>	



Chain of Custody Record

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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		Page 11 of 14	
Company Civil & Environmental Consultants Inc		Address 5988 Montclair Blvd		City Cincinnati		State, Zip OH, 45150		Phone 513-209-1986 (Tel)		E-Mail dominic.nestase@testamericainc.com		Job #	
Due Date Requested		TAT Requested (days)		Standard		PO #		WO #		Project #		SSOW #	
24019083		172-367						24019083					
Project Name Arconic, Inc. - Elliott Dtic		Email lakeberg@cecinc.com		Sample Date		Sample Time		Sample Type (C-Comp, G-grab)		Matrix (Water, Solid, On-surface, etc.)		Preservation Code	
				11/2/17		0928		G		S		S	
				11/2/17		0930		G		S		S	
				11/1/17		1410		G		S		S	
				11/1/17		1417		G		S		S	
				11/1/17		1427		G		S		S	
				11/1/17		1433		G		S		S	
				10/31/17		1450		G		S		S	
				10/31/17		1457		G		S		S	
				10/31/17		1504		G		S		S	
				11/1/17		1126		G		S		S	
				11/1/17		1144		G		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 checked="" type="checkbox"/> Radiological	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by		Date		Date/Time		Company		Date/Time		Company	
		Laura Campbell		11/6/17		0815		Quick		11-6-17 1400		Quick	
		Laura Campbell		11-6-17		14:40		Quick		11-6-17 1700		Quick	
		Laura Campbell		11-7-17		1000		Quick		11-7-17 1000		Quick	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:											



Chain of Custody Record

TestAmerica Canton
4101 Shuttle Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Client Information Client Contact: <u>Jacqueline Lakeberg</u> Company: <u>Civil & Environmental Consultants Inc</u> Address: <u>5986 Montclair Blvd</u> City: <u>Cincinnati</u> State: <u>OH</u> Zip: <u>45150</u> Phone: <u>513-209-1666 (Tel)</u> Email: <u>lakeberg@cecinc.com</u> Project Name: <u>Arcenic, Inc. - Elliott Ditch</u> Site:		Lab PM: <u>Nestase, Dominic J</u> E-Mail: <u>dominic.nestase@testamericainc.com</u> Lab #: Project #: SSOW#		Carrier Tracking Note: <u>4</u> Page 12 of 14 Job #																	
Due Date Requested: TAT Requested (days): Standard: PO #: WO #: Project #: SSOW#		Analysis Requested																			
Sample Identification ED-01-14-SL03-(0-0.5) ED-01-14-SL03-(0.5-1.0) ED-01-14-SL03-(0.5-1.0)-FD ED-01-49-SL02-(0-0.5) ED-01-49-SL02-(0.5-1.0) ED-01-37-SL01-(0-0.9) ED-01-37-SL01-(0-0.9)-FD ED-01-03-SL03-(0-0.21) ED-01-03-SL03-(0.21-1.0) ED-00-82-SL03-(0-0.5) ED-00-82-SL03-(0.5-1.0)		Sample Date 11/1/17 11/1/17 11/1/17 11/1/17 11/1/17 11/2/17 11/2/17 10/31/17 10/31/17 10/31/17 10/31/17		Sample Time 1022 1029 1029 1350 1355 0911 0911 1705 1713 1611 1615		Matrix (Water, Solid, Overstabil, Other)		Sample Type (C=Comp, G=grab)		Preservation Code: G S C S C S G S G S C S C S G S G S G S		Field Filtered Sample (Yes or No)		Perform MSMSD (Yes or No)		902A - (MOD) PCBs 7 Analytes		Total Number of Containers		Special Instructions/Note: Soil Sample Soil Sample Soil Sample Soil Sample Soil Sample Soil Sample Soil Sample Soil Sample Soil Sample 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: <input type="checkbox"/> 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: <u>[Signature]</u> Date: <u>11/6/17 0815</u> Company: <u>Quick</u>		Relinquished By: <u>[Signature]</u> Date/Time: <u>11-6-17 14:40</u> Company: <u>Quick</u>		Relinquished by: <u>[Signature]</u> Date/Time: <u>11-7-17 1000</u> Company: <u>TA</u>		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		Lab PM Nestase, Dominic J	Carrier Tracking No(s) 4	Page 13 of 14
Company Civil & Environmental Consultants Inc		Sample Laura Campbell		E-Mail dominic.nestase@testamericainc.com	Job #	
Address 5988 Montclair Blvd		Due Date Requested		Analysis Requested		
City Cincinnati		TA# Requested (days)		Total Number of Containers		
State, Zip OH, 45150		Standard		Preservation Codes:		
Phone		PO #		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - NaNO2 D - Nitric Acid P - Na2OAS E - NaHSO4 Q - Na2SO4 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4.5 L - EDA Z - other (specify)		
Email llakeberg@cecinc.com		WO # 172-367		Other:		
Project Name Arconic, Inc. - Elliott Dike		Project # 24019083		Special Instructions/Note:		
Site		SSOW#				

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (W-water, B-blood, O-oil, T-tissue, A-Air)	Field Filtered Sample (Yes or No)	Perform MSMSD (Yes or No)	6024 - (MOB) PCBs 7 Analytes	Special Instructions/Note:
ED-00-72-SL04-(0-0.11')	10/31/17	1539	G	S	X	X	X	Soil Sample
ED-00-72-SL04-(0.11-0.47')	10/31/17	1540	G	S	X	X	X	Soil Sample
ED-00-72-SL04-(0.47-1.0')	10/31/17	1546	G	S	X	X	X	Soil Sample
ED-01-49-SL01-(0-0.5')	11/1/17	1340	C	S	X	X	X	Soil Sample
ED-01-49-SL01-(0-0.5')-FD	11/1/17	1340	C	S	X	X	X	Soil Sample
ED-01-24-SL03-(0-0.5')	11/1/17	1203	G	S	X	X	X	Soil Sample
ED-00-82-SL01-(0-0.22')	10/31/17	1604	G	S	X	X	X	Soil Sample
ED-00-82-SL01-(0.22-0.5')	10/31/17	1605	G	S	X	X	X	Soil Sample
ED-01-03-SL01-(0-0.5')	11/1/17	0832	C	S	X	X	X	Soil Sample
ED-01-03-SL01-(0-0.5')-FD	11/1/17	0832	C	S	X	X	X	Soil Sample
ED-01-14-SL01-(0-0.5')	11/1/17	1001	C	S	X	X	X	Soil Sample

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

Requested By	Date/Time	Company
<i>[Signature]</i>	11-6-17 14:00	Quick Company
<i>[Signature]</i>	11-6-17 17:00	Quick Company
<i>[Signature]</i>	11-10-17 1:00	Quick Company

Empty Kit Relinquished by: *[Signature]* Date: 11/6/17 08:15 Company: Quick
 Relinquished by: *[Signature]* Date/Time: 11-6-17 14:40 Company: Quick
 Relinquished by: *[Signature]* Date/Time: 11-10-17 1:00 Company: Quick

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Custody Seals Intact:
 Δ Yes Δ No



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@testamericac.com	Page 14 of 14 Job #			
Phone 513-209-1966 (Tel)		Due Date Requested		Analysis Requested				
E-Mail lakeberg@cecinc.com		TAT Requested (days)		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:				
Project Name Arconic, Inc. - Elliott Dike		PO #		M - Hexane N - None O - ANH2O2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4.5 X - other (specify)				
Site		WO # 172-367		Total Number of Containers				
		Project # 24019083		Special Instructions/Note:				
		SSON #						
Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (Water, Solid, Other)	Field Filtered Sample (Yes or No)	Perform MSM/SD (Yes or No)	8082A - (MOU) PCBs 7 Analytes	Special Instructions/Note:
ED-01-14-SL01-(0-0.5)-MS	11/1/17	1001	C	S	X	X	X	Soil Sample
ED-01-14-SL01-(0-0.5)-MSD	11/1/17	1001	C	S	X	X	X	Soil Sample
Water Drum	11/1/17	1626	C	W	X	X	X	2
Soil-Sed Drum	11/3/17	1221	C	S	X	X	X	1 Run as sediment
Equip Rinsate	11/2/17	1658	C	W	X	X	X	2
<p>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</p> <p>Deliverable Requested I, II, III, IV, Other (specify)</p> <p>Empty Kit Relinquished by: <i>[Signature]</i> Date: 11/6/17 08:15 Relinquished by: <i>[Signature]</i> Date/Time: 11/6-17 14:40 Relinquished by: <i>[Signature]</i> Date/Time: 11-7-17 1:00 Relinquished by: <i>[Signature]</i> Date/Time: 11-7-17 1:00</p> <p>Company: <i>[Signature]</i> Company: <i>[Signature]</i> Company: <i>[Signature]</i> Company: <i>[Signature]</i></p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:</p>								



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. Corrected Cooler Temp. IR GUN #36 (CF +0.3°C) Observed Cooler Temp. Corrected Cooler Temp. IR GUN # 627 (CF -1.3°C) Observed Cooler Temp. Corrected Cooler Temp.

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 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? Yes No

If yes, Questions 11-15 have been checked at the originating laboratory.

11. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC697954

12. Were VOAs on the COC? Yes No

13. Were air bubbles >6 mm in any VOA vials? Yes No NA Larger than this.

14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No

15. Was a LL Hg or Me Hg trip blank present? Yes No

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 Multiple Cooler Receipt Form/Narrative
Canton Facility

Login #:

87591

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
CLIENT	8	1.0	1.0	ICE
/		1.4	1.4	
		5.0	5.0	
		0.4	0.4	

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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

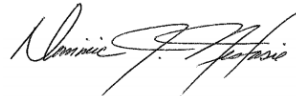
TestAmerica Job ID: 240-91496-1

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
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- 13
- 14



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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
<i>DCB Decachlorobiphenyl</i>	82		10 - 132	02/15/18 09:44	02/18/18 16:59	1
<i>Tetrachloro-m-xylene</i>	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
DCB Decachlorobiphenyl	82		10 - 132	02/15/18 10:32	02/18/18 18:40	1
Tetrachloro-m-xylene	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
<i>DCB Decachlorobiphenyl</i>	70		10 - 132	02/15/18 11:13	02/19/18 14:50	1
<i>Tetrachloro-m-xylene</i>	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
DCB Decachlorobiphenyl	95		10 - 132	02/15/18 11:13	02/19/18 15:45	5
Tetrachloro-m-xylene	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
<i>DCB Decachlorobiphenyl</i>	75		10 - 132	02/15/18 11:13	02/19/18 16:58	1
<i>Tetrachloro-m-xylene</i>	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
<i>DCB Decachlorobiphenyl</i>	89		10 - 132	02/15/18 11:13	02/19/18 19:25	1
<i>Tetrachloro-m-xylene</i>	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
<i>DCB Decachlorobiphenyl</i>	94		10 - 132	02/15/18 11:13	02/19/18 21:15	1
<i>Tetrachloro-m-xylene</i>	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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2 (10-132)	TCX2 (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 %Recovery	LCS Qualifier				Limits
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 %Recovery	MS Qualifier						Limits
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 %Recovery	MSD 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.

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 P#: Nestasie, Dominic J
 Phone: 865-977-9997
 E-Mail: dominic.nestasie@testamericacant.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 Name: Arconic, Inc. - Elliott Ditch
 Site: Elliott Ditch

Analysis Requested
 Due Date Requested: Standard
 TAT Requested (days):
 PO #:
 WO #:
 Project #:
 SSO#:

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 Identification	Sample Date	Sample Time	Sample Type (G-Comp, G-grab)	Matrix (Wet, Solid, On-site, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	902A-(MOD) PCBs Aroclors	Total Num	Special Instructions/Note:
ED-00.00-SL01-(0 - 0.91')	2/7/18	09:16	G	S	X	X		1	
ED-00.00-SL01-(0.91 - 2.21')	2/7/18	09:16	G	S	X	X		2	
ED-00.00-SL01-(2.21 - 3.12')	2/7/18	09:16	G	S	X	X		1	
ED-00.00-SL01-(3.12 - 3.44')	2/7/18	09:16	G	S	X	X		1	
ED-00.02-SL01-(0 - 0.63')	2/7/18	09:38	G	S	X	X		1	
ED-00.02-SL01-(0.63 - 1.76')	2/7/18	09:38	G	S	X	X		1	
ED-00.02-SL01-(1.76 - 2.18')	2/7/18	09:38	G	S	X	X		1	
ED-00.02-SL01-(2.18 - 3.43')	2/7/18	09:38	G	S	X	X		1	
ED-00.02-SL01-(3.43 - 4')	2/7/18	09:38	G	S	X	X		1	
ED-00.05-SL01-(0 - 0.67')	2/7/18	10:03	G	S	X	X		1	
ED-00.05-SL01-(0.67 - 1.2')	2/7/18	10:03	G	S	X	X		2	

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:
 Method of Shipment:
 Date/Time: 2/14/18 9:40
 Company: TAC
 Date/Time:
 Company:
 Date/Time:
 Company:

Chain of Custody Record

Client Information Client Contact: Matt Brazzile Phone: 865-977-9997 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		Sampler: Matt Brazzile/ Duncan Muchoki Phone: 865-977-9997 Lab PM: Nestasie, Dominic J Email: dominic.nestasie@testamericainc.com		Carrier Tracking Note: Page 2 of 5 Job #		GOC No.	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SSOW#		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 602A-(MOD) PCBs Aroclors <input checked="" type="checkbox"/>		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:		Preservation Codes: M - Heoane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Identification							
ED-00-05-SL01-(1.4 - 2.3)	2/7/18	10:03	G	S	X	1	
ED-00-05-SL01-(2.3 - 3.3)	2/7/18	10:03	G	S	X	1	
ED-00-05-SL01-(3.3 - 4.0)	2/7/18	10:03	G	S	X	1	
ED-00-08-SL03-(2.25 - 2.75)	2/7/18	10:11	G	S	X	1	
ED-00-08-SL03-(2.75 - 3.5)	2/7/18	10:11	G	S	X	1	
ED-00-08-SL03-(4 - 5)	2/7/18	10:14	G	S	X	1	
ED-00-08-SL03-(5 - 5.6)	2/7/18	10:14	G	S	X	1	
ED-00-08-SL03-(5.6 - 6.6)	2/7/18	10:14	G	S	X	1	
ED-00-08-SL03-(6.6 - 7)	2/7/18	10:14	G	S	X	1	
ED-00-08-SL03-(7 - 8)	2/7/18	10:14	G	S	X	1	
ED-00-08-SL05-(0 - 0.67)	2/7/18	10:26	G	S	X	1	
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)							
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:							
Empty Kit Relinquished by: Date: _____ Time: _____ Method of Shipment: _____ Relinquished by: DUNCAN MUCHOKI Date/Time: 02/19/18 3:30P Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seals Intact: _____ Custody Seal No.: _____ <input type="checkbox"/> Yes <input type="checkbox"/> 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
 Company: Civil & Environmental Consultants Inc
 Address: 2704 Cherokee Farms Way, Suite 101
 City: Knoxville
 State, Zip: TN, 37920
 Phone: 865-399-1782
 Email: mbrazil@cecinc.com
 Project Name: Arconic, Inc. - Elliott Ditch
 Site: Elliott Ditch

Client Contact:
 Name: Matt Brazill / Duncan Muchoki
 Phone: 865-977-9997
 E-Mail: dominic.nestase@testamericainc.com

Lab PM: Nestase, Dominic J
Carrier Tracking No(s):

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Soil, O=Other)	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	

Analysis Requested

Preservation Codes:
 A-HCL, B-NaOH, C-Zn Acetate, D-Nitric Acid, E-NaHSO4, F-MeOH, G-Arsenite, H-Ascorbic Acid, I-Ice, J-DI Water, K-EDTA, L-EDA, Other:

Special Instructions/Note:

Due Date Requested: TAT Requested (days): Standard

PO #:

WO #: 172-367.0006

Project #: 172-367.0006

SSON#:

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 I** Date/Time: 02/13/18 9:59 AM Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Custody Seal No.: _____
 Δ Yes Δ 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

24/2.1

Client Information
 Sampler: Matt Brazzile/ Duncan Muchoki
 Lab PM: Nestasie, Dominic J
 Client Contact: Matt Brazzile
 Phone: 865-977-9997
 E-Mail: dominic.nestasio@testamericainc.com

Company: Civil & Environmental Consultants Inc
 Address: 2704 Cherokee Farms Way, Suite 101
 City: Knoxville
 State, Zip: TN, 37920
 Phone: 865-369-1782
 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
 SSGWF

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Overhead, BT=Trace, AA=M)	Preservation Code:	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	

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amelbor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:

Preservation Codes:
 M - Heptane
 N - None
 O - AshNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2SO3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 Z - other (specify)

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

Empty Kit Relinquished by: Date: _____
 Relinquished by: Duncan Muchoki Date: 02/13/18 Time: 3:30P
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: _____
 Δ Yes Δ 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		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		PO #:		Preservation Codes:	
WO #: 172-367.0006		Project #:		A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - Nitric Acid F - MeOH G - Ammonia H - Acetic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - Nitro O - Ni(NO2) P - Ni2O4S Q - Ni2SO4 R - Ni2SO3 S - H2SO4 T - TSP Diethylhydrazide U - Acetone V - NCA W - pH 4.5 Z - other (specify)	
Email: mbrazillie@cecinc.com		SSOW#:		Other:	
Project Name: Arconic, Inc. - Elliott Ditch		Sample Date		Perform MS/MSD (Yes or No)	
Site: Elliott Ditch		Sample Time		Field Filtered Sample (Yes or No)	
Sample Identification		Sample Type (C=Comp, G=grab)		8082A-(MOD) PCBs Aroclors	
ED-01.24-SL04-(1 - 1.46')		G S		X	
ED-01.24-SL05-(0 - 0.42')		G S		X	
ED-01.24-SL05-(0 - 0.42')-DUP		G S		X	
ED-01.24-SL05-(0.5 - 1.46')		G S		X	
ED-01.24-SL06-(0.0 - 0.84')		G S		X	
ED-01.24-SL06-(1 - 1.96')		G S		X	
Possible Hazard Identification		Preservation Code:		Total Number of Containers	
<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:		Special Instructions/Note:	
Empty Kit Relinquished by:		Date/Time:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Relinquished by: DUNCAN MUCTOW		02/13/18 9:00 P		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished by:		Date/Time:		Special Instructions/QC Requirements:	
Relinquished by:		Date/Time:		Method of Shipment:	
Custody Seals Intact:		Date/Time:		Date/Time: 2-14-18 9:40	
Custody Seal No.:		Date/Time:		Company: TAI Company	
Δ Yes Δ No		Date/Time:		Company: Company	

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login #: 91496

Client CIVIL ENVR. 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

- 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
- 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
- Shippers' packing slip attached to the cooler(s)? Yes No
- Did custody papers accompany the sample(s)? Yes No
- Were the custody papers relinquished & signed in the appropriate place? Yes No
- Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- Did all bottles arrive in good condition (Unbroken)? Yes No
- Could all bottle labels be reconciled with the COC? Yes No
- Were correct bottle(s) used for the test(s) indicated? Yes No
- Sufficient quantity received to perform indicated analyses? Yes No
- Are these work share samples?
 If yes, Questions 12-16 have been checked at the originating laboratory.
- Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC730269
- Were VOAs on the COC? Yes No
- Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
- Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
- 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:

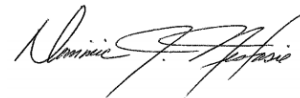
Civil & Environmental Consultants Inc

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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- 2
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- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

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.

2.0/K1.7

Chain of Custody Record

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-93396 Fax (330) 497-0772

Client Information
Company: Civil & Environmental Consultants Inc
Address: 2704 Cherokee Farms Way, Suite 101
City: Knoxville
State, Zip: TN, 37920
Phone: 865-399-1782
Email: mbrazill@cecinc.com
Project Name: Arconic, Inc. - Elliott Ditch
Site: Elliott Ditch

Sampler: Brandon Kay/ Duncan Muchoki
Lab PM: Nestlasie, Dominic J
Phone: 865-977-9997
E-Mail: dominic.nestlasie@testamericainc.com

Carrier Tracking No(s):

Analysis Requested

Due Date Requested:
TAT Requested (days): Standard

Preservation Codes:
 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
 Other:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2OAS
 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)	Matrix (Inertic based, Environmental)	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	



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

Empty Kit Relinquished by: Date: _____ Time: _____
 Relinquished by: **DUNCAN MUCHOKI** Date/Time: 02/02/18 3:00 pm Company: CEC
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes 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

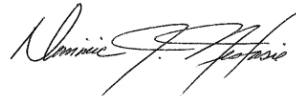
TestAmerica Job ID: 240-97885-1

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

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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

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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
- 5
- 6
- 7
- 8
- 9
- 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 %Recovery	MS Qualifier	Limits
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 Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
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 %Recovery	MSD Qualifier	Limits
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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1000	682.9		ug/Kg		68	47 - 120
PCB-1260	1000	823.9		ug/Kg		82	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
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		Spike Added	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier		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		Spike Added	MSD MSD		Unit	D	%Rec	Limits	RPD	
	Result	Qualifier		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

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: 240-97885-15 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	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
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	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
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	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
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	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Percent Solids	87.2		85.0		%		3	20

TestAmerica Canton

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	

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

Date Collected: 06/16/18 16:40

Date Received: 06/27/18 09:50

Lab Sample ID: 240-97885-2

Matrix: Solid

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

Date Collected: 06/16/18 16:40

Date Received: 06/27/18 09:50

Lab Sample ID: 240-97885-2

Matrix: Solid

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

Date Collected: 06/15/18 18:12

Date Received: 06/27/18 09:50

Lab Sample ID: 240-97885-4

Matrix: Solid

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

Date Collected: 06/15/18 18:12

Date Received: 06/27/18 09:50

Lab Sample ID: 240-97885-4

Matrix: Solid

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

Date Collected: 06/15/18 18:17

Date Received: 06/27/18 09:50

Lab Sample ID: 240-97885-5

Matrix: Solid

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

Date Collected: 06/15/18 18:17

Date Received: 06/27/18 09:50

Lab Sample ID: 240-97885-5

Matrix: Solid

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

Client Information
Client Contact: Greg Schwartz
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

Sampler: Greg Schwartz
Phone: 808 268-4981
Lab P/N: Nestasie, Dominic J
E-Mail: dominic.nestasie@testamericainc.com

COC No: 240-52180-22484.2
Page: 2 of 4
Job #: 1111

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weather, Soil, Overstabil, BT-Tissue, Air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8082A - PCBs 7 Analytes		8082A - Moisture		Special Instructions/Note:
					Field Filtered	MS/MSD	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	X	X	X	X	X	X	X	Hold	CS
ED-00.51-SL06-1.0-2.0	6/16/18	1640	G	S	X	X	X	X	X	X	X	Hold	CS
ED-00.51-SL06-1.5-2.0	6/16/18	1647	G	S	X	X	X	X	X	X	X	Hold	CS
ED-01.14-SL01-0.5-1.0	6/15/18	1812	G	S	X	X	X	X	X	X	X	Hold	CS
ED-01.14-SL01-1.0-1.5	6/15/18	1817	G	S	X	X	X	X	X	X	X	Hold	CS
ED-01.14-SL01-1.0-1.5	6/15/18	1817	G	S	X	X	X	X	X	X	X	Hold	CS
ED-01.14-SL01-1.5-2.0-FD	6/15/18	1820	G	S	X	X	X	X	X	X	X	Hold	CS
ED-01.14-SL01-1.5-2.0	6/15/18	1820	G	S	X	X	X	X	X	X	X	Hold	CS
ED-01.14-SL05-0.0-0.5	6/15/18	1826	G	S	X	X	X	X	X	X	X	Hold	CS
ED-01.14-SL05-0.5-1.0	6/15/18	1827	G	S	X	X	X	X	X	X	X	Hold	CS
ED-01.14-SL05-1.5-2.0	6/15/18	1832	G	S	X	X	X	X	X	X	X	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: _____

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>		Analysis Requested			
PO #: <u>172-367</u> WO #: <u>172-367</u> Project #: <u>24019083</u> SOW #:		Purchase Order Requested <u>6/14/16</u>		Total Number of containers	
Sample Identification ED-0114-8205-1.0-1.5 ED-0000-8203-3.4-4.0 ED-0000-8203-2.5-3.4 ED-0000-8203-1.7-2.5 ED-0000-8203-0.9-1.7 ED-0000-8203-0.0-0.9 ED-0000-8204-0.0-0.9 ED-0000-8204-0.9-1.0 ED-0000-8204-0.0-0.9-ED ED-0000-8204-1.8-2.7 ED-0000-8204-2.7-3.6		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> <u>6/14/16</u>		Sample Time <u>1630</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, G=grab) <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u>		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>Y</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u>		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>Y</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u>	
Preservation Code: 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:		Preservation Codes: M - Hexane N - None O - AsH2O2 P - Na2OHS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - other (specify)		Special Instructions/Note: <u>CO</u> <u>Hold</u> <u>Hold</u> <u>MS/MSD</u> <u>S</u> <u>Hold</u>	
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:			
Empty Kit Relinquished by: <u>Greg Schwartz</u> Date/Time: <u>6/14/16 1310</u> Company: <u>CEC</u>		Date/Time: <u>6/23/18</u> Company: <u>FEJ EX</u>		Date/Time: <u>9:00</u> Company: <u>COOLER A</u>	
Relinquished by:		Relinquished by:		Relinquished by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:			

Chain of Custody Record

Client Information		Sampler: Greg Schwartz		Lab PM: Nestasia, Dominic J		Carrier Tracking No(s):		COC No: 240-52180-22484.4	
Client Contact: Greg Schwartz		Phone: 808-268-4551		E-Mail: dominic.nestasia@testamericainc.com		Page: 3 of 11		Request of: 3 of 11	
Company: Civil & Environmental Consultants Inc		Address: 2704 Cherokee Farm Way Suite 101		City: Knoxville		State: TN, 37920		Job #:	
Phone: 513-309-1966(Tel)		PO #: 10		Purchase Order Requested		WO #: 172-367		Preservation Codes:	
Email: gschwartz@ccecinc.com		Project #: 24019083		SSOW#:		Matrix (W=water, S=solid, O=on-site, BT=Butter, 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)	
Site: Lehigh, TN		Due Date Requested:		TAT Requested (days):		Sample Date		Sample Time	
Sample Identification		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8082A, PCBS 7 Aroclors		8082A, Moisture	
ED-00.17-SL02-6.0-0.8-FD		X		N		X		N	
ED-00.17-SL02-0.0-0.8-		X		N		X		N	
ED-00.17-SL02-0.8-1.5		X		N		X		N	
ED-00.17-SL02-1.8-2.8		X		N		X		N	
ED-00.17-SL02-2.8-3.8		X		N		X		N	
ED-00.41-SL01-0.0-0.5		X		N		X		N	
ED-00.41-SL01-1.0-1.5		X		N		X		N	
ED-00.41-SL01-1.5-2.0		X		N		X		N	
ED-00.41-SL01-2.0-2.5		X		N		X		N	
ED-00.41-SL01-2.5-3.0		X		N		X		N	
Possible Hazard Identification		X		N		X		N	
<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		<input type="checkbox"/> Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/Note:		MS/MSD		Hold	
Empty Kit Relinquished by:		Date:		Time:		Return To Client		Disposal By Lab	
Relinquished by: Greg Schwartz		Date: 6/14/18		Time: 1310		Company: CEC		Method of Shipment: Fed Ex	
Relinquished by:		Date/Time:		Date/Time:		Company:		Date/Time: 6/21/18	
Relinquished by:		Date/Time:		Date/Time:		Company:		Date/Time: 9:50	
Custody Seals Intact: Yes		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)		Archive For: Months	

Chain of Custody Record

Client Information Client Contact: Greg Schwartz 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: <u>Elliot Ditch, Lefflyth, TN</u>		Lab PM: Nestasie, Dominic J E-Mail: dominic.nestasie@testamericainc.com Sampler: <u>Greg Schwartz</u> Phone: <u>808 268-4981</u>		Carner Tracking Nets: GOC No: 240-52180-22484.5 Page: <u>5 of 11</u> 4 of 11 Job #:	
Due Date Requested: TAT Requested (days): PO #: 10 Purchase Order Requested WO #: 172-367 Project #: 24019083 SSO#:		Analysis Requested Total Number of containers:			
Sample Identification Sample ID: <u>ED-00.19-SL01-3.7-4.0</u> <u>ED-00.19-SL01-1.8-2.3</u> <u>ED-00.19-SL01-1.5-1.8</u> <u>ED-00.19-SL01-0.0-0.9</u> <u>ED-00.19-SL01-0.8-1.5</u> <u>ED-00.19-SL01-0.8-1.5-FD</u> <u>ED-00.19-SL01-1.8-2.3</u> <u>ED-00.19-SL01-2.3-3.5</u> <u>ED-00.19-SL01-3.5-4.0</u> <u>ED-00.21-SL01-0.0-1.0</u> <u>ED-00.21-SL01-1.0-2.0</u>		Sample Date: 6/14/18 Sample Time: 10:16 1448 1446 1440 1442 1448 1450 1453 1456 1458		Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air) S S S S S S S S S	
Preservation Code:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
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		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/Note: Held MS/MSD Held Held	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:		Special Instructions/Note: Held any sample taken > 2.0 Fed Ex Cooler A	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: <u>Greg Schwartz / Greg W</u>		Date/Time: 6/25/18 6:19:16 Date/Time: 6/19/18 13:10		Received by: <u>POP</u> Company: <u>CEC</u>	
Relinquished by:		Date/Time:		Received by: Company:	
Relinquished by:		Date/Time:		Received by: Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		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 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)		Special Instructions/QC 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)				
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date/Time: 6/25/18 1310 Relinquished by: _____ Date/Time: 6/25/18 1310 Relinquished by: _____ Date/Time: _____		Method of Shipment: FEDEX Cooler A Date/Time: 6/27/18 9:00 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:				



Chain of Custody Record

Client Information Client Contact: Greg Schwartz 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: <i>Wahpeton, MN</i>		Lab PM: Nestasie, Dominic J E-Mail: dominic.nestasie@testamericainc.com Phone: 800-268-4981 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 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-SL01-0.4-1.0-ED ED-00.36-SL01-0.0-0.4		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8082A, Moisture 8082A - PCBs 7 Analytes Special Instructions/Note: H ₂ O H ₂ O CS CS	
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		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)	
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)		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:	
Empty Kit Relinquished by: <i>Greg Schwartz</i> Relinquished by: <i>Greg Schwartz</i> Relinquished by: Relinquished by:		Method of Shipment: Fed Ex Cooler B Date/Time: 6/25/18 1310 Date/Time: Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	



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:
					Y	N	Y	N	Y	N	
ED-00.17 - SLO2 - 1.8 - 2.8 - FD	6/14/18	1524	C	S	X		X				Hold
ED-00.41 - SLO1 - 3.0 - 3.7	6/14/18	1524	C	S	X		X				Hold
ED-00.36 - SLO1 - 1.5 - 2.0	6/14/18	1050	C	S	X		X				Hold
ED-00.41 - SLO1 - 0.5 - 1.0	6/14/18	1005	C	S	X		X				Hold
ED-00.36 - SLO1 - 3.5 - 4.0	6/14/18	1105	C	S	X		X				Hold
ED-00.36 - SLO1 - 1.5 - 2.0 - FD	6/14/18	1050	C	S	X		X				Hold
ED-00.36 - SLO1 - 0.4 - 1.0	6/14/18	1055	C	S	X		X				Hold
ED-00.19 - SLO1 - 1.8 - 2.5 - FD	6/14/18	1448	C	S	X		X				Hold
ED-00.33 - SLO1 - 2.3 - 3.1 - FD	6/14/18	1230	C	S	X		X				Hold
ED-00.36 - SLO1 - 2.0 - 2.5	6/14/18	1050	C	S	X		X				Hold
ED-00.36 - SLO1 - 2.5 - 3.5	6/14/18	1059	C	S	X		X				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		Received by: FedEx	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:									



Chain of Custody Record

Client Information Client Contact: Greg Schwartz Phone: 806 269-4481 Sampler: Greg Schwartz Lab PM: Nestasie, Dominic J E-Mail: dominic.nestasie@testamericainc.com		COC No: 240-52180-22484.7 Page: 6/19/18 Job #: 8 of 11									
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		Carrier/Tracking No(s): Analysis Requested: Due Date Requested: TAT Requested (days): 10 PO #: Purchase Order Requested W/O #: 172-367 Project #: 24019083 S/SOW#:									
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, D=dust/fallout, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs 7 Analytes	8082A - PCBs 7 Analytes	Analysis Requested	Total Number of Containers	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				Hold
ED-00.52-SL03-1.5-2.0	6/18/18	1745	G	S	N	X	X				
ED-00.44-SL01-0.0-0.5	6/14/18	1120	G	S	N	X	X				
ED-00.44-SL01-0.5-1.0	6/14/18	1122	G	S	N	X	X				
ED-00.44-SL01-1.0-1.5	6/14/18	1127	G	S	N	X	X				
ED-00.44-SL01-1.5-1.8	6/14/18	1134	G	S	N	X	X				
ED-00.44-SL01-1.8-2.0	6/14/18	1140	G	S	N	X	X				
ED-00.44-SL01-2.0-2.5	6/14/18	1143	G	S	N	X	X				
ED-00.44-SL01-1.5-1.9	6/14/18	1134	G	S	N	X	X				
ED-00.44-SL01-2.5-3.0	6/14/18	1148	G	S	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: 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											
Special Instructions/QC Requirements:											
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date/Time: 6/15/18 12:10 Company: CEC Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No											
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:											



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: 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 Job #: 6/14/18 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 SSOW#:								
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=brine, 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	1858	G	S	N	X	X			
ED-01.14-SL06-1.0-1.5	6/13/18	1412	G	S	X	X	X			
ED-01.14-SL06-1.5-2.0	6/13/18	1430	G	S	X	X	X			Hold
ED-00.31-SL01-0.0-1.0	6/14/18	1213	G	S	X	X	X			
ED-00.31-SL01-1.0-2.0	6/14/18	1215	G	S	X	X	X			Hold
ED-00.31-SL01-1.0-2.0-FD	6/14/18	1215	G	S	X	X	X			Hold
ED-00.31-SL01-2.0-2.8	6/14/18	1217	G	S	X	X	X			
ED-00.31-SL01-2.8-3.5	6/14/18	1219	G	S	X	X	X			
ED-00.33-SL01-0.0-0.7	6/14/18	1220	G	S	X	X	X			
ED-00.33-SL01-0.7-1.6	6/14/18	1225	G	S	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: [Signature] Date: 6/25/18 - 1310 Company: CEC										
Relinquished by: [Signature] Date/Time: 6/25/18 1310 Company: CEC										
Relinquished by: [Signature] Date/Time: Company:										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Custody Seal No.:										
Special Instructions/Requirements: <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months Method of Shipment: Fed Ex Cooler 3 Day/Time: 6/27-18 950 Company: TAC Date/Time: Company:										
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/Requirements:										
Cooler Temperature(s) °C and Other Remarks:										



Chain of Custody Record

Client Information		Lab PM: Nestasie, Dominic J		Carrier Tracking No(s):	
Company: Civil & Environmental Consultants Inc		E-Mail: dominic.nestasie@testamericainc.com		COC No: 240-52180-22484, 7	
Address: 2704 Cherokee Farm Way, Suite 101		Phone: 800 268-4181		Page: 6 of 11	
City: Knoxville		State, Zip: TN, 37920		Job #:	
Phone: 513-309-1966(Tel)		Purchase Order Requested		Preservation Codes:	
E-mail: gschwartz@cecinc.com		WO #: 172-367		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ipa J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - NiZnOAS Q - NiZSO3 R - NiZSO3 S - HZSO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Project Name: Arconic, Inc. - Elliott Ditch		Project #: 24019083		Other:	
Site: Lafayette IN		SSOW#:		Special Instructions/Note: Hold any sample > 2.0' depth	
Sample Identification		Field Filtered Sample (Yes or No)		Total Number of Containers	
ED-00.33 - SL01 - 1.6-2.3		X		X	
ED-00.33 - SL01 - 2.3-3.1		X		X	
ED-00.33 - SL01 - 3.1-4.0		X		X	
ED-00.23 - SL01 - 0.7-1.2		X		X	
ED-00.23 - SL01 - 1.2-2.0		X		X	
ED-00.23 - SL01 - 2.0-2.8		X		X	
ED-00.23 - SL01 - 3.5-4.0		X		X	
ED-00.29 - SL01 - 0.0-0.7		X		X	
ED-00.29 - SL01 - 0.7-1.7		X		X	
ED-00.29 - SL01 - 1.7-2.7-FO		X		X	
Possible Hazard Identification		Form MS/MSD (Yes or No)		8082A - PCBs 7 Analytes	
<input checked="" type="checkbox"/> Non-Hazard		X		N	
<input type="checkbox"/> Flammable		X		N	
<input type="checkbox"/> Skin Irritant		X		N	
<input type="checkbox"/> Poison B		X		N	
<input type="checkbox"/> Unknown		X		N	
<input type="checkbox"/> Radiological		X		N	
Deliverable Requested: I, II, III, IV, Other (specify)		Matrix (Wetwater, Solid, On-water, Aqueous)		Special Instructions/OC Requirements:	
Empty Kit Relinquished by: Greg Schwartz / CEC		Date: 6/25/16 1310		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Relinquished by: Greg Schwartz / CEC		Date/Time: 6/27/16 900		Method of Shipment: FedEx	
Relinquished by: Greg Schwartz / CEC		Date/Time: 6/27/16 900		Company: CEC	
Relinquished by: Greg Schwartz / CEC		Date/Time: 6/27/16 900		Company: CEC	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

MSD
ED-00.33
5.01-
1.0-2.0



Chain of Custody Record

Client Information Client Contact: <u>Greg Schwartz</u> Phone: <u>800-266-2181</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>Lebanon, TN</u>		Lab P.M.: <u>Nestlasie, Dominic J</u> E-Mail: <u>dominic.nestlasie@testamericainc.com</u> Carnier Tracking No(s): Lab No: <u>240-52180-22484.7</u> Page: <u>63/116</u> Job #: <u>U.F.11</u>	
Due Date Requested: TAT Requested (days): <u>10</u> PO #: <u>172-367</u> Purchase Order Requested: <u>24019083</u> WO #: <u>172-367</u> Project #: <u>24019083</u> SSOV#:		Analysis Requested Total Number of Containers:	
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"/> N <input checked="" type="checkbox"/> N Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> N 8082A, Moisture <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> N 8082A - PCBs & Aroclors <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> N	
Sample Date: <u>6/14/18</u> Sample Time: <u>1550</u> Sample Type (C=Comp, G=Grab): <u>G</u> Matrix (W=water, S=solid, O=organic, BT=Trace Acid): <u>S</u>	Sample Date: <u>6/14/18</u> Sample Time: <u>1230</u> Sample Type (C=Comp, G=Grab): <u>G</u> Matrix (W=water, S=solid, O=organic, BT=Trace Acid): <u>S</u>	Sample Date: <u>6/14/18</u> Sample Time: <u>1050</u> Sample Type (C=Comp, G=Grab): <u>G</u> Matrix (W=water, S=solid, O=organic, BT=Trace Acid): <u>S</u>	Sample Date: <u>6/14/18</u> Sample Time: <u>1053</u> Sample Type (C=Comp, G=Grab): <u>G</u> Matrix (W=water, S=solid, O=organic, BT=Trace Acid): <u>S</u>
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: <u>[Signature]</u> Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u> 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	
Date/Time: <u>6/25/18 1518</u> Date/Time: <u>6/27/18 950</u> Date/Time:		Method of Shipment: <u>Fed Ex</u> Date/Time: <u>6/27/18</u> Date/Time: <u>950</u> Date/Time:	
Custody Seal Intact: <u>Yes</u> Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

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: JR.

Listed on COC, but did not rec'y: | Rec'd not listed on COC.

ED-00.19-SL01-1.8-2.3 @ 1448 | ED-00.36-SL01-3.0-3.5 (6.14.18 @ 1050)

ED-01.14-SL06-1.0-1.5 @ 1825 | ED-01.14-SL04-15-1.5 FD (6.15.18 @ 1825)

ED-00.36-SL01-0.4-1.0 FD @ 1053 |

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): _____

APPENDIX IV

COMMUNITY RELATIONS PLAN FOR LEVEE SOIL IM PROJECT

**RCRA CORRECTIVE ACTION
COMMUNITY RELATIONS PLAN
ELLIOTT DITCH – REACHES 1 - 3**

**ARCONIC LAFAYETTE OPERATIONS
3131 EAST MAIN STREET
LAFAYETTE, INDIANA 47905**

PREPARED FOR:



ARCONIC

**MR. ROBERT PREZBINDOWSKI
TENNESSEE OPERATIONS – NORTH PLANT
2300 NORTH WRIGHT ROAD
ALCOA, TENNESSEE 37701**

PREPARED BY:

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

CEC PROJECT: 172-367.0012

JANUARY 2020



Civil & Environmental Consultants, Inc.

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1.0 INTRODUCTION

This Community Relations Plan (CRP) has been prepared in support of the Interim Measures (IM) projects at Elliott Ditch Reaches 1 through 3 in Lafayette, Indiana. Arconic Inc. (Arconic), formerly Alcoa Inc., intends to implement multiple IM projects to address identified polychlorinated biphenyls (PCBs) impacts to soil and sediment within these reaches of Elliott Ditch. The observed PCB impacts are believed to be associated with historical releases from the Arconic Lafayette Operations (Facility). The IM projects will be implemented sequentially, with the first being the remediation of a levee located within Reach 1. An IM Work Plan (IMWP) detailing the cleanup of the levee soil was submitted to the Indiana Department of Environmental Management (IDEM) and the U.S. Environmental Protection Agency Region 5 (U.S. EPA) in October 2018 for review and comment. A revised IMWP was submitted in November 2019 to modify the post excavation sampling approach. The IDEM subsequently provided conditional approval in a letter dated January 7, 2019, contingent upon U.S. EPA's acceptance of the post-excavation sampling scheme. Arconic has requested and will receive coordinated approval from U.S. EPA prior to implementing the levee IMWP. A similar approach will be followed for subsequent IM projects in Reaches 1 through 3 of Elliott Ditch. These activities will be completed in accordance with the Resource Conservation and Recovery Act (RCRA) Corrective Action (CA) program and the PCB regulations under the supervision and consent of the IDEM and the U.S. EPA Region 5, respectively.

As stated in the levee IMWP, preparation and implementation of a CRP is included as part of the project to promote collaboration and communication with local stakeholders. The content of this plan includes applicable background information regarding Elliott Ditch and outlines the components of the CRP that will be implemented.

2.0 BACKGROUND

Elliott Ditch is a tributary to Wea Creek, which is a tributary to the Wabash River, just downstream of Lafayette, Indiana. The ditch is identified as a regulated drain until the 9th Street crossing, slightly more than 1.60 miles downstream of Facility Outfall 001. The Tippecanoe County Drainage Board maintains the regulated drains within the county, subject to Indiana Code (IC) 36-9-27. Regulated drains include an easement that typically extends 75 feet from each bank. These easements are intended to provide access for maintenance activities to support proper functionality of the drain. The easement areas have construction restrictions regarding the types of improvements that can be made by private property owners without drainage board approval.

Elliott Ditch receives storm water runoff from residential developments, as well as wastewater and storm water discharges from local, industrial sources that are monitored under the National Pollution Discharge Elimination System (NPDES). This includes receiving water from a NPDES permitted outfall (Outfall 001) of the Facility. Water from Outfall 001 discharges to Elliott Ditch 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 Outfall 001 to the Elliott Ditch and Wea Creek confluence is 4.1 miles and to the Wabash River and Wea Creek confluence is 7.5 miles. The geomorphic surface mapping completed for Elliott Ditch by TetraTech CES, as documented in its *Elliott Ditch Geomorphic Surface Mapping and Historic Data Review* dated July 6, 2015, suggests that Elliott Ditch has eight distinct reaches (erosional/depositional regimes) downgradient of the outfall, as listed below:

- **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; and,
- Reach 8: Upstream of US Hwy to the Elliott Ditch – Wea Creek confluence.

This CRP covers the IM projects to be executed in Reaches 1 through 3. Please refer to **Figure 1** for the identification of Reaches 1 through 3 of Elliott Ditch. These reaches include the channelized portion of Elliott Ditch that is identified as a regulated drain and therefore subject to IC 36-9-27 statues and enforcement by the Tippecanoe County Drainage Board.

3.0 COMMUNITY RELATIONS PLAN

The purpose of the CRP is to outline the plan for informing and involving the community in the cleanup process of soil and sediment of Reaches 1 through 3 of Elliott Ditch. The CRP is a living document that will be updated periodically as IM project planning and execution progresses. Below are the primary elements of the CRP, as well as, pertinent information or actions for each.

3.1 PROPERTY OWNER IDENTIFICATION

Arconic will identify owners whose property includes or abuts IM project activities. To do so, Arconic will complete the following:

- Using ArcGIS software, acquire publically available information from the Tippecanoe County GIS Department. Information of interest includes:
 - Parcel identification and physical address;
 - Name(s) of property owners and mailing address, if different than the physical address; and,
 - Approximate property boundary.
- If information gaps are present within publically available property records, Arconic will attempt to obtain the above information by other means which may include foot canvassing or direct coordination with the City of Lafayette or Tippecanoe County local governments.
- The information of interest will be tabulated for use throughout IM project activities. Tabulated information of interest acquired to date is presented on **Tables 1A** thru **1C** and depicted on **Figures 1A** thru **1C**.
- Acquired information will be utilized to coordinate with these property owners and provide IM project status updates. Project status updates will be provided weekly during remediation activities and quarterly during non-remediation times via a dedicated Elliott Ditch website. In addition, Arconic will promote collaboration and open dialogue with property owners and occupants to facilitate discussions regarding community needs, concerns, and expectations regarding the IM projects. An Elliott Ditch hotline, (317) 613-4514, and dedicated e-mail address, ElliottDitchQuestions@gmail.com, are available to support this initiative.

3.2 NEIGHBORHOOD ORGANIZATIONS

Arconic will identify registered neighborhood organizations serving the location of the IM Project. Arconic has completed a preliminary search of registered neighborhood organizations in proximity to the levee soil IM project. The preliminary search did not yield any neighborhood organizations within Reach 1. However, Mill Creek Home Owner's Association (HOA) has been identified within Reach 2 and engaged as part of previous Elliott Ditch investigations. As assessment and remediation activities progress along Elliott Ditch, Arconic will continue to search for other registered neighborhood organizations that are within proximity to remediation activities to coordinate outreach, if necessary. IM project status

updates will be provided to applicable HOAs (i.e., HOAs in proximity to remediation activities) weekly during remediation activities and quarterly during non-remediation times via the dedicated Elliott Ditch website. An email will be provided notifying applicable HOAs that the website has been updated.

3.3 INFORMATIONAL LETTER

An informational letter will be prepared and issued to private property owners, property occupants, and neighborhood organizations for properties that include or abut IM project activities, as appropriate. An example informational letter for the levee soil IM project is attached to this memo. In addition, a fact sheet has been attached to this memo summarizing background information, project next steps, environmental and health impacts, and project contact information. The fact sheet will be included with the informational letters prepared for the IM projects. Proposed language to be included in the written notice is provided below:

- A short description of the IM project;
- Information concerning the public comment period, including the dates and contacts;
- Address of the Elliott Ditch website; and,
- Information concerning the record repository. The record repository will be maintained electronically and can viewed on the Elliott Ditch website. The Tippecanoe County Public Library located at 627 South Street, Lafayette, Indiana, has internet enabled computers that the general public can use to view the website in the event they do not have a computer or internet. The library will be informed of the project and provided website information so it is aware in case of inquiries.

3.4 LOCAL GOVERNMENT COORDINATION

Local governmental units with jurisdiction within one mile of Reaches 1 through 3 of Elliott Ditch are listed in the attached **Table 2**. Arconic understands that the IDEM will notify the affected local government units about the IM projects and the anticipated remediation activities. Arconic will also contact the local governmental units in an effort to promote collaboration and open communication. In addition, local government units will be notified of the IM by the IDEM at the beginning of the public comment period, as soon as an internal review of the document has been completed. No other counties are within one mile of Reaches 1 through 3 of Elliott Ditch, as such, other governmental units from surrounding counties are not included.

3.5 MEDIA PUBLICATIONS

The following media outlets will be solicited to publish information regarding the IM projects. For public meetings, Arconic will publish information two weeks in advance, one week in advance, and one day in advance of the meeting. Arconic will also publish information regarding public comment periods one day in advance of the start date, the commencement date, and one week prior to the end date.

- Newspaper No. 1: Journal & Courier, 823 Park East Blvd, Suite C, Lafayette, Indiana

- Newspaper No. 2: The Lafayette Leader (electronic newspaper, http://www.newsbug.info/lafayette_leader/)

3.5.1 Example Publication

The following is an example of what will be submitted for publication regarding public comment periods. Publications regarding public meetings will be similar and include information regarding the meeting date, time, and location. Please note that the actual publication may differ slightly from what is provided:

- *“Arconic Inc. is submitting a Notice of Public comment regarding an Interim Measures Work Plan (IMWP) in review by the United States Environmental Protection Agency (U.S. EPA), Region 5, and the Indiana Department of Environmental Management (IDEM) to address impacts from polychlorinated biphenyls (PCBs) to soil present on and within a levee of Elliott Ditch. The IMWP can be reviewed at the project repository maintained electronically at Elliott Ditch website, or electronically on the IDEM’s virtual file cabinet (vfc.idem.in.gov, Document No. 82630193). The comment period will be held from [DATE], to [DATE]. Questions or comments regarding the IMWP should be directed to the Elliott Ditch hotline (317) 613-4514 or ElliottDitchQuestions@gmail.com.”*

3.6 REPOSITORY INFORMATION

As IM work plans are prepared for regulatory and public consideration, they will be available electronically on the Elliott Ditch website at least one week in advance of the start of the public comment period. The Tippecanoe County Public Library located at 627 South Street, Lafayette, Indiana, has internet enabled computers that the general public can use to view the website in the event they do not have a computer. The library will be informed of the project and provided website information so it is aware in case of inquiries

3.7 REQUIRED SIGNAGE DURING IM PROJECTS

Signs will be posted at the entrances of the IM project sites prior to the initiation of IM activities and will contain the following information:

- Identifies the location as an IM project site, for example, “Elliott Ditch – Levee Soil Remediation”.
- Provides contact information for the U.S. EPA Region 5 project manager and the IDEM Office of Land Quality (OLQ) project manager, as well as the Elliott Ditch hotline phone number and project website address.
 - U.S. EPA Region 5
Ms. Jean Greensley
77 W. Jackson Blvd.; LU-16J
Chicago, Illinois
(312) 353-1171

- IDEM OLQ Project Manager
Mr. Don Stilz
100 North Senate Avenue; IGCN 1101
Indianapolis, Indiana
(317) 232-3409
- (317) 613-4515 (Elliott Ditch hotline)
- Elliott Ditch website
- Shall meet the following criteria:
 - Be visible/readable from 20-feet;
 - Be in English and the language predominantly used in the neighborhood if other than English;
 - One sign per IM project site access point and no more than three signs total. Regarding the Elliott Ditch Levee Soil IM Project, one sign will be placed at the anticipated construction entrance along Concord Road and one sign along Olympia Drive; and,
 - Shall be posted starting with the end of the public comment period for the IMWP, before any work begins and remain posted until the IM project has been completed.

3.8 SITE CONTROL METHODS

During the implementation of IM activities, Arconic will establish proper controls in order to reduce the potential of the public from being exposed to excavated soils, sediment and remediation equipment. This will be accomplished by establishing strict site control procedures to prohibit public access to work areas. Site control measures will be implemented at the discretion of the selected remedial contractors and may include controls such as the following:

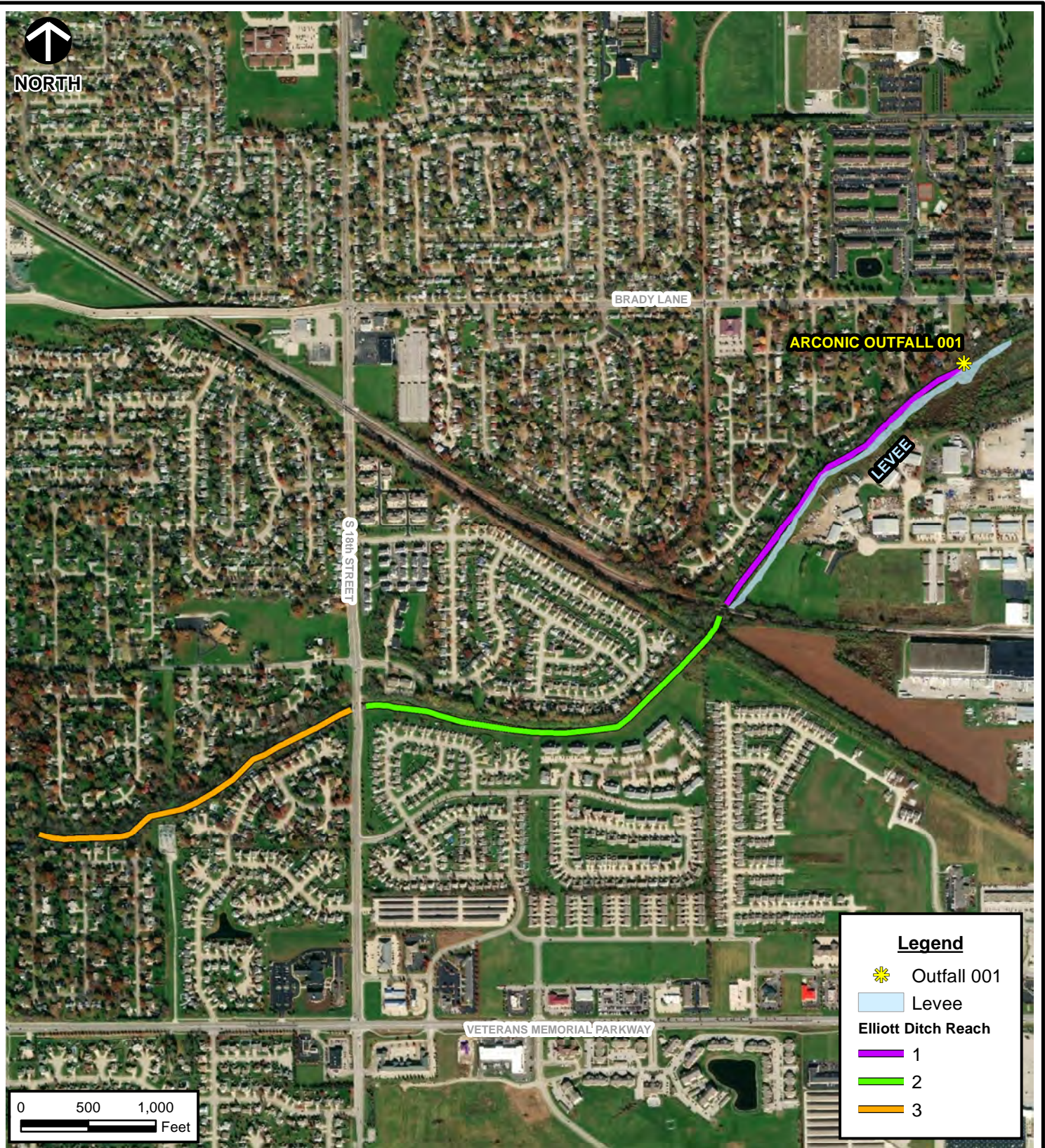
- Installation of temporary fencing with gated entrances/exits. All entrances/exits to the work area will be closed and locked during non-working hours;
- Proper signage will be utilized to notify the public of potential hazards (as discussed above);
- All visitors will be required to sign in/out at the construction trailer and will be briefed on site hazards prior to viewing the work areas. Visitors will be escorted by site personnel and will be required to don proper personal protective equipment as defined in the Contractor Health & Safety Plan;
- Areas where active remediation is occurring will be designated as an “exclusion zone” (via signage and/or cones) and access will only be limited to properly trained site personnel, only.
- An onsite water truck will be utilized to mitigate fugitive dust from mobilizing offsite;

- Site workers will be instructed to decontaminate boots via a boot wash prior to mobilizing offsite and properly manage disposable personnel protective equipment; and,
- Dirt/mud will be removed from dump trucks and equipment prior to leaving the site. This will be accomplished via the decontamination procedures as outlined in the applicable IMWP and conducted by trained site personnel. Dump truck operators will not be prohibited to leave the cab of their truck while in areas of active remediation.

FIGURE 1 – ELLIOTT DITCH REACHES 1-3



NORTH



ARCONIC OUTFALL 001

LEVEE

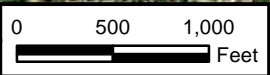
S 18th STREET

BRADY LANE

VETERANS MEMORIAL PARKWAY

Legend

- Outfall 001
- Levee
- Elliott Ditch Reach**
- 1
- 2
- 3



SOURCE: ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: [HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY](http://gto.arcgis.com/maps/world_imagery). LAST ACCESSED: 3/14/2019
 IMAGE DATE: 03/12/2011



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ARCONIC INC.
 LAFAYETTE OPERATIONS
 ELLIOTT DITCH REMEDIATION
 LAFAYETTE, INDIANA

REACHES 1-3 & LEVEE LOCATION OVERVIEW

DRAWN BY:	DMM	CHECKED BY:	JMB	APPROVED BY:	TLM*	FIGURE NO:	1
DATE:	MARCH 14, 2019	DWG SCALE:	1" = 1,000'	PROJECT NO:	172-367.0011		

Signature on File *

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APPENDIX I
PROPERTY OWNERSHIP INFORMATION
(FIGURES 1A-1C & TABLES 1A-1C)

P:\2017\172-367-Draft Documents\Task 0012 - Public Outreach\Community Relations Plan\Property Figures & Table\GIS\172-367 Elliott Ditch Access Figure_Reach 1.mxd - 3/6/2019 - 3:33:41 PM (mbruck)



SOURCE: ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY. LAST ACCESSED: 3/6/2019
 IMAGE DATE: 03/12/2011



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ARCONIC INC. - LAFAYETTE OPERATIONS
ELLIOTT DITCH REACHES 1-3
COMMUNITY RELATIONS PLAN
LAFAYETTE, INDIANA

REACH 1

DRAWN BY:	GDS	CHECKED BY:	GAW	APPROVED BY:	JMB*	FIGURE NO:
DATE:	MARCH 06, 2019	DWG SCALE:	1" = 500'	PROJECT NO:	172-367.0012	1A

Signature on File *

**TABLE 1A
ELLIOTT DITCH - REACH 1 PROPERTY OWNERS
LAFAYETTE, INDIANA**

Map ID	Parcel Address	City/Zip Code	Owner	Owner Mailing Address
31	3249 BRADY LN	Lafayette, 47909	MORGAN ERIC A	Same as Parcel Address
8	3241 BRADY LN	Lafayette, 47909	TAD RENTALS LLC	4208 CR 650 N Mulberry, IN 46058
9	3233 BRADY LN	Lafayette, 47909	HIGGINSON BRUCE A	Same as Parcel Address
7	3215 BRADY LN	Lafayette, 47909	SMITH BRIAN A	Same as Parcel Address
13	250E	Lafayette, 47909	TIPPECANOE CO PROPERTIES LLC	188 Farabee Dr., Lafayette, IN 47905
6	BRADY LN	Lafayette, 47909	ARCONIC INC	201 Isabella St., Pittsburgh, PA 15212
30	3131 BRADY LN	Lafayette, 47909	KLEIN JANEACE & USHER JAMES R	Same as Parcel Address
36	50 OLYMPIA CT	Lafayette, 47909	RATHJE DAVID W ETAL	2454 27TH St., Decatur, IL 65265
29	21 BRADY CT	Lafayette, 47909	SMITH KYLE & ERIKA R	Same as Parcel Address
28	18 BRADY CT	Lafayette, 47909	STINGLEY MALCOLM & HELEN	Same as Parcel Address
34	40 OLYMPIA CT	Lafayette, 47909	ROLAN SOLUTIONS LLC	Same as Parcel Address
35	30 OLYMPIA CT	Lafayette, 47909	R & B MANAGEMENT LLC	3223 Olympia Dr., Lafayette IN 47909
27	48 COLDBROOK CT	Lafayette, 47909	ROHR PAULINE E	Same as Parcel Address
5	30 OLYMPIA DR	Lafayette, 47909	R & B MANAGEMENT LLC	3223 Olympia Dr., Lafayette IN 47909
26	56 COLDBROOK DR	Lafayette, 47909	MERRELL HELEN L	Same as Parcel Address
25	64 COLDBROOK CT	Lafayette, 47909	FOUST MICKY L D JEAN	Same as Parcel Address
24	72 COLDBROOK DR	Lafayette, 47909	DEVANEY FRED NANCY A	Same as Parcel Address
23	72 COLDBROOK DR	Lafayette, 47909	DEVANEY FRED NANCY A	Same as Parcel Address
22	3116 OLYMPIA DR	Lafayette, 47909	WINSTEAD LLC	3223 Olympia Dr., Lafayette IN 47909
4	100 COLDBROOK DR	Lafayette, 47909	REED ROBERT E & SANDRA K	Same as Parcel Address
3	100 COLDBROOK DR	Lafayette, 47909	REED ROBERT E & SANDRA K	Same as Parcel Address
21	108 COLDBROOK DR	Lafayette, 47909	BROOKS EDITH D	Same as Parcel Address
12	116 COLDBROOK DR	Lafayette, 47909	HACHEL W SCOTT & MARLA L	Same as Parcel Address
20	120 COLDBROOK DR	Lafayette, 47909	HANSTRA JOYCE E	Same as Parcel Address
19	126 COLDBROOK DR	Lafayette, 47909	DUNKLE ANDREA J & CHRISTOPHER M	Same as Parcel Address
2	130 COLDBROOK DR	Lafayette, 47909	KNOTH RICHARD D & MARJORIE J	Same as Parcel Address
0	137 COLDBROOK DR	Lafayette, 47909	MYERS ADAM C & KELLY J	Same as Parcel Address
18	3110 OLYMPIA DR	Lafayette, 47909	PATTON UNDERGROUND LLC	Same as Parcel Address
17	145 COLDBROOK DR	Lafayette, 47909	ALVAREZ ALONSO & ELIZABETH	Same as Parcel Address
10	155 COLDBROOK CT	Lafayette, 47909	HOLWERDA MYRON D CAROL S	Same as Parcel Address
1	165 COLDBROOK DR	Lafayette, 47909	WENDT RALPH E & PATRICIA L	Same as Parcel Address
16	3107 OLYMPIA CT	Lafayette, 47909	LOCAL UNION #2317 UAW BUILDING CORPORATION	Same as Parcel Address
15	175 COLDBROOK CT	Lafayette, 47909	LAWSON TIMOTHY & DENISE	Same as Parcel Address
11	185 COLDBROOK CT	Lafayette, 47909	BRATTON SANDRA MICHELLE TTEE	Same as Parcel Address
14	195 COLDBROOK CT	Lafayette, 47909	GRAYSON DANIEL C I SUSAN	Same as Parcel Address
32	RAILROAD	Lafayette, 47909	NEW YORK CHICAGO AND ST LOUIS RAILROAD COMPANY	185 Spring St. SW, Atlanta, GA 30303
33	250 E	Lafayette, 47909	ABS REAL ESTATE LLC	3460 Concord Rd., Lafayette IN 47909

Notes:

VACANT PARCELS

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SOURCE: ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY. LAST ACCESSED: 3/6/2019
 IMAGE DATE: 03/12/2011



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ARCONIC INC. - LAFAYETTE OPERATIONS
 ELLIOTT DITCH REACHES 1-3
 COMMUNITY RELATIONS PLAN
 LAFAYETTE, INDIANA

REACH 2

DRAWN BY:	GDS	CHECKED BY:	GAW	APPROVED BY:	JMB*	FIGURE NO:
DATE:	MARCH 06, 2019	DWG SCALE:	1" = 500'	PROJECT NO:	172-367.0012	1B

Signature on File *

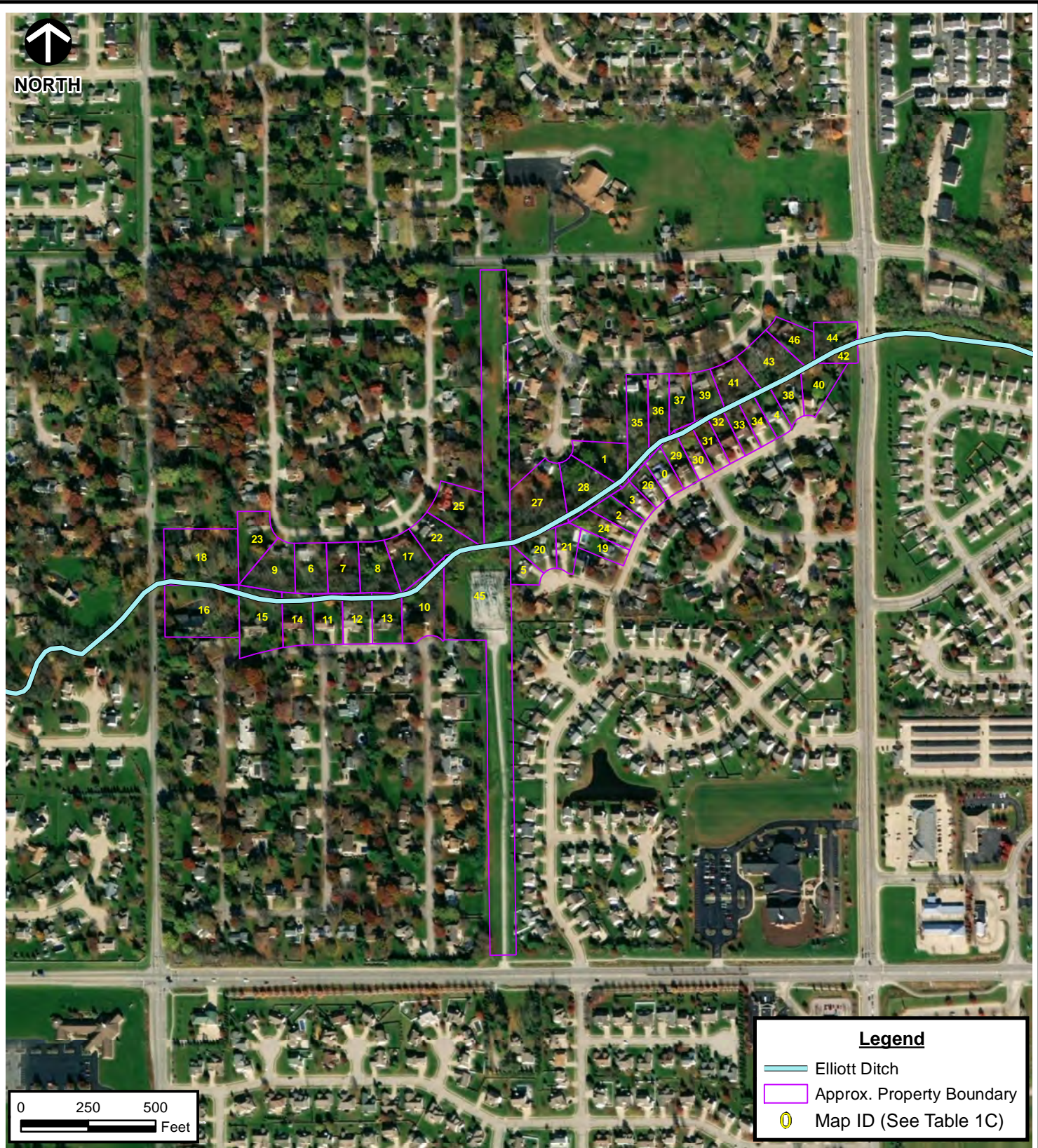
TABLE 1B
ELLIOTT DITCH - REACH 2 PROPERTY OWNERS
LAFAYETTE, INDIANA

Map ID	Parcel Address	City/Zip Code	Owner	Owner Mailing Address
30		Lafayette, 47909	WIEBERS JACOB E & MARY ANN WIEBERS TTEES	6628 1000 E Lafayette, IN 47905
31	40 SOUTHAVEN CT	Lafayette, 47909	CAVANAUGH RAMONA J	Same as Parcel Address
37	50 SOUTHAVEN CT	Lafayette, 47909	BETTY VICKI J	Same as Parcel Address
29	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOMEOWNERS ASSOCIATION INC	PO Box 2332, West Lafayette, IN 47996
28	2353 SOUTHAVEN BLVD	Lafayette, 47909	BUTZ KODY S	Same as Parcel Address
20	2429 SOUTHAVEN BLVD	Lafayette, 47909	FRIEDERICH JULIE A	Same as Parcel Address
26	2345 WINTERSET DR	Lafayette, 47909	DOUGLAS BRADY ANDREW	Same as Parcel Address
36	2341 WINTERSET DR	Lafayette, 47909	TEAM RENTALS LLC	3928 McCarty Ln. Suite A, Lafayette, IN 47905
21	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOMEOWNERS ASSOCIATION INC	PO Box 2332, West Lafayette, IN 47996
35	2337 WINTERSET DR	Lafayette, 47909	SPOO TERRY F	Same as Parcel Address
5	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOMEOWNERS ASSOCIATION INC	PO Box 2332, West Lafayette, IN 47996
34	2333 WINTERSET DR	Lafayette, 47909	EVANS DAVID A & JACQUELINE L	Same as Parcel Address
33	2329 WINTERSET DR	Lafayette, 47909	KENNEDY TAMARA E	Same as Parcel Address
32	2325 WINTERSET DR	Lafayette, 47909	CAPRARA LAWRENCE P & KELLY	Same as Parcel Address
3	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOMEOWNERS ASSOCIATION INC	PO Box 2332, West Lafayette, IN 47996
7	2321 WINTERSET DR	Lafayette, 47909	QUALITY PROPERTIES OF LAFAYETTE LLC	6720 Indian Bluff Rd., Battleground, IN 47920
8	2317 WINTERSET DR	Lafayette, 47909	COX SHERRY	Same as Parcel Address
	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOMEOWNERS ASSOCIATION INC	PO Box 2332, West Lafayette, IN 47996
9	2313 WINTERSET DR	Lafayette, 47909	FULTZ RALPH E & MYRA	Same as Parcel Address
10	2309 WINTERSET DR	Lafayette, 47909	HERRON PATRICIA J	Same as Parcel Address
11	2305 WINTERSET DR	Lafayette, 47909	HOCKEMA WILLIAM CHARLES & MARY ELLEN	Same as Parcel Address
13	2301 WINTERSET DR	Lafayette, 47909	FISHER BETTY M & EHRIE LISA A	Same as Parcel Address
14	2217 WINTERSET DR	Lafayette, 47909	HUMMER MICHAEL L & DAWN E	Same as Parcel Address
0	BRIDGEWATER CT	Lafayette, 47909	MILL CREEK HOMEOWNERS ASSOCIATION INC	PO Box 2332, West Lafayette, IN 47996
17	2213 WINTERSET DR	Lafayette, 47909	STEWART ZACHARY C	Same as Parcel Address
15	2209 WINTERSET DR	Lafayette, 47909	NEWGENT MICHAEL L CHARLOTTE L	Same as Parcel Address
16	2205 WINTERSET DR	Lafayette, 47909	EARHART CRAIG L	Same as Parcel Address
18	2121 WINTERSET DR	Lafayette, 47909	PINGLEY STEVEN & SOPHIA	Same as Parcel Address
12		Lafayette, 47909	MILL CREEK HOME OWNERS ASSOCIATION INC	PO Box 2332, West Lafayette, IN 47996
22	2121 WINTERSET DR	Lafayette, 47909	PINGLEY STEVEN L & SOPHIA L	Same as Parcel Address
1	2105 SUMMERTIME TRL	Lafayette, 47909	HAGEN ROBERT J DEBORAH J	Same as Parcel Address
25	2105 SUMMERTIME TRL	Lafayette, 47909	HAGEN ROBERT J DEBORAH J	Same as Parcel Address
24	2009 SUMMERTIME TRL	Lafayette, 47909	TENINTY MICHAEL & SHARON L	Same as Parcel Address
23	2005 SUMMERTIME TRL	Lafayette, 47909	COPLEY SHAUN M	Same as Parcel Address
27	1851 SUMMERTIME TRL	Lafayette, 47909	BUCKLEY ROBERT W TRUST ANN TRUST	1842 Summertime Trail, Suite 17, Lafayette, IN 47905
19	1851 SUMMERTIME TRL	Lafayette, 47909	SULLIVAN PAPPAS PROPERTIES LLC	21246 Prado Cir., Huntington Beach, CA 92648
4		Lafayette, 47909	MILL CREEK HOME OWNERS ASSOCIATION	PO Box 2332, West Lafayette, IN 47996
6		Lafayette, 47910	LAFAYETTE CITY OF	20 6th St., Lafayette, IN 47901

Notes:

VACANT PARCELS

P:\2017\172-367\Draft Documents\Task 0012 - Public Outreach\Community Relations Plan\Property Figures & Table\GIS\172-367 Elliott Ditch Access Figure_Reach 3.mxd - 3/6/2019 - 3:38:09 PM (mbruck)



SOURCE: ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY. LAST ACCESSED: 3/6/2019
 IMAGE DATE: 03/12/2011



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ARCONIC INC. - LAFAYETTE OPERATIONS
 ELLIOTT DITCH REACHES 1-3
 COMMUNITY RELATIONS PLAN
 LAFAYETTE, INDIANA

REACH 3

DRAWN BY:	GDS	CHECKED BY:	GAW	APPROVED BY:	JMB*	FIGURE NO:	1C
DATE:	MARCH 06, 2019	DWG SCALE:	1" = 500'	PROJECT NO:	172-367.0012		

Signature on File *

TABLE 1C
ELLIOTT DITCH - REACH 3 PROPERTY OWNERS
LAFAYETTE, INDIANA

Map ID	Parcel Address	City, Zip Code	Owner	Owner Mailing Address
44	18TH ST	Lafayette, 47909	TIPPECANOE COUNTY COMMISSIONERS	20 3RD St., Lafayette, IN 47901
42	18TH ST	Lafayette, 47909	TIPPECANOE COUNTY COMMISSIONERS	20 3RD St., Lafayette, IN 47901
46	1341 WINDMILL DR	Lafayette, 47909	CLEGG ROBERT & ALLISON M	Same as Parcel Address
40	3114 THOMAS DR	Lafayette, 47909	NORMAN PHILLIP ALAN & CHRISTIN VICTORIA	Same as Parcel Address
38	3116 THOMAS DR	Lafayette, 47909	SERRA BASIL DONNA F	Same as Parcel Address
43	1337 WINDMILL DR	Lafayette, 47909	GEORGE & KATY ADE	Same as Parcel Address
4	3120 THOMAS DR	Lafayette, 47909	KYLE J HIATT	Same as Parcel Address
34	3122 THOMAS DR	Lafayette, 47909	RYAN BENJAMIN RADBEL	Same as Parcel Address
33	3124 THOMAS DR	Lafayette, 47909	STEPHEN & SUSAN BEAM	Same as Parcel Address
41	1333 WINDMILL DR	Lafayette, 47909	ANTHONY RYAN & SARA N BLACKBURN	Same as Parcel Address
39	1329 WINDMILL DR	Lafayette, 47909	TAYLOR ANNE MARIE	Same as Parcel Address
32	3126 THOMAS DR	Lafayette, 47909	SCOTT & JOLENE FREEMAN	Same as Parcel Address
31	3128 THOMAS DR	Lafayette, 47909	RITCHIE LAWRENCE M & BRIDGET	Same as Parcel Address
30	3130 THOMAS DR	Lafayette, 47909	CAROL S & LARRY WADAMS	Same as Parcel Address
37	1325 WINDMILL DR	Lafayette, 47909	MARK A EASTMAN	1323 Windmill Dr., Lafayette, IN 47909
36	1323 WINDMILL DR	Lafayette, 47909	MARK A & LINDA S EASTMAN	Same as Parcel Address
29	3202 THOMAS DR	Lafayette, 47909	JUDGE RUSSELL R CYNTHIA A	Same as Parcel Address
0	3204 THOMAS DR	Lafayette, 47909	JOHNSON CHARLES F TERESA L	3208 Thomas Dr., Lafayette 47909
26	3208 THOMAS DR	Lafayette, 47909	JOHNSON CHARLES F TERESA L	Same as Parcel Address
35	1321 WINDMILLDR	Lafayette, 47909	THINNES DEBRA K	Same as Parcel Address
1	80 WINDMILL CT	Lafayette, 47909	SHOEMAKER RUSSELL S CONNIE K	Same as Parcel Address
3	3210 THOMAS DR	Lafayette, 47909	TIMMONS CHARLES H JANET G	Same as Parcel Address
2	3212 THOMAS DR	Lafayette, 47909	CAVANAUGH THOMAS J & DIANA C	Same as Parcel Address
28	70 WINDMILL CT	Lafayette, 47909	SCHULTZ DAVID LYNN MARY G	Same as Parcel Address
24	3216 THOMAS DR	Lafayette, 47909	GRIFFIN STEPHEN J & AMANDA J	Same as Parcel Address
19	3218 THOMAS DR	Lafayette, 47909	ANDERSEN BENTLEY KATHY S	Same as Parcel Address
21	30 THOMAS CT	Lafayette, 47909	HELD SHARON JO	Same as Parcel Address
27	60 WINDMILL CT	Lafayette, 47909	NEWCOMB KENNETH A & MICHELLE L	Same as Parcel Address
20	40 THOMAS CT	Lafayette, 47909	BOLYARD RICHARD W & PAMELA E	Same as Parcel Address
5	50 THOMAS CT	Lafayette, 47909	TARTER JACK W ET AL	Same as Parcel Address
45	300 S	Lafayette, 47909	PSI ENERGY INC	550 Tryon St., Charlotte, NC 28202
25	3567 CANTERBURY DR	Lafayette, 47909	MAICKEL ROGER P LOIS L	Same as Parcel Address
22	3563 CANTERBURY DR	Lafayette, 47909	BOWMAN MARK D BARBARA B	Same as Parcel Address
17	3559 CANTERBURY DR	Lafayette, 47909	WUERTEMBERGER ERIC & DESIRE'	Same as Parcel Address
10	1008 SOUTHERNVIEW DR	Lafayette, 47909	ANDERSON MONTE W & TRACIE D	Same as Parcel Address
13	1004 SOUTHERNVIEW DR	Lafayette, 47909	STEWART C ROBERT & KAREN J CO-TTEES	Same as Parcel Address
12	1000 SOUTHERNVIEW DR	Lafayette, 47909	COCHRAN JAMES L & SHEILA A	Same as Parcel Address
8	3555 CANTERBURY DR	Lafayette, 47909	BOLLOCK JAMES M LORI L	Same as Parcel Address
7	3551 CANTERBURY DR	Lafayette, 47909	LONG RUSSELL A	Same as Parcel Address
6	3547 CANTERBURY DR	Lafayette, 47909	DRESCH LARRY D JOYCE E	4301 Fiddlesticks Dr., Lafayette, IN 47909-2015
9	3543 CANTERBURY DR	Lafayette, 47909	LOGAN KIM M LYNDA S	Same as Parcel Address
11	928 SOUTHERNVIEW DR	Lafayette, 47909	ADAMS EDWARD M & JEAN G	Same as Parcel Address
14	924 SOUTHERNVIEW DR	Lafayette, 47909	POTTS DAVID R PATRICIA A	Same as Parcel Address
15	920 SOUTHERNVIEW DR	Lafayette, 47909	DULIN JOHN & TANYA	Same as Parcel Address
23	3539 CANTERBURY DR	Lafayette, 47909	ALTER CHRISTOPHER R & JENNIFER E	Same as Parcel Address
16	3565 9TH ST	Lafayette, 47909	SULLIVAN DONALD S & KAREN W	Same as Parcel Address
18	3547 9TH ST	Lafayette, 47909	POST SUZETTE L	Same as Parcel Address

APPENDIX II
EXAMPLE OUTREACH LETTER



MONTH DAY, 2020

Property Owner Name
Property Address
Lafayette, Indiana 47905

Dear Property Owner:

Subject: Arconic Lafayette Operations
Elliott Ditch Investigation and Cleanup Activities
Status Update and Public Meeting Notice

Arconic Inc. (Arconic), formerly Alcoa Inc., is providing you this informational letter regarding upcoming environmental cleanup activities at Elliott Ditch. Arconic intends to implement cleanup measures to address polychlorinated biphenyls (PCBs) impacts to soil within the levee along Elliott Ditch (see attached Figure 1). A work plan outlining the cleanup approach has been submitted to the Indiana Department of Environmental Management (IDEM) and the U.S. Environmental Protection Agency (U.S. EPA) Region 5 for review and approval. This work plan is the first in a series of steps that will be taken to address PCB-impacted soil and sediment near and within Elliott Ditch that are believed to be associated with historical PCB releases from the Arconic Lafayette Operations (Facility) Outfall 001. This outfall is permitted to discharge storm water runoff and treated process water from the Facility. A fact sheet has also been attached to this memo summarizing background information, project next steps, environmental and health impacts, and project contact information. These activities will be completed in accordance with a regulatory cleanup program under the supervision and with approval from the IDEM and the U.S. EPA Region 5.

Elliott Ditch, located in proximity to your property, receives industrial water discharges from various industrial sources, including the Facility. Arconic has conducted a progression of environmental investigations of Elliott Ditch, the most recent of which focused on a 1.59 mile section immediately downstream of Arconic's permitted outfall. The outfall is located approximately 1-mile downstream (i.e., south) of the Facility. This investigation, summarized in the IDEM Virtual File Cabinet (vfc.idem.in.gov, Document No. 82630193), identified PCB impacts to soil and sediment within and along the levee of Elliott Ditch. Arconic is preparing to begin cleanup of identified impacts along the levee as an initial step in the work plan. Additional work is planned to be conducted in later phases to address PCB impacted sediment within the ditch.

Arconic is committed to working with private property owners to keep you informed of planned investigation and cleanup activities, and the results, and will work to avoid unnecessary inconvenience. Arconic will host a public meeting on [DATE] at [LOCATION] in Lafayette, Indiana. The purpose of this public meeting is to present Elliott Ditch background information, discuss investigation work completed to date, provide an overview of the levee work plan, property access updates, and a tentative project schedule. Representatives from the U.S. EPA and the IDEM will be available at this meeting to answer questions.



If you have any questions regarding the public meeting, or the information provided herein, please contact our hotline at 317-613-4514, or email ElliottDitchQuestions@gmail.com.

Arconic greatly appreciates your time and willingness to support this effort, and we look forward to speaking with you about the upcoming cleanup and investigation activities.

Sincerely,

Arconic Designated Representative

Enclosures

APPENDIX III
LOCAL GOVERNMENT UNITS
(TABLE 2)

TABLE 2
AFFECTED LOCAL GOVERNMENTAL UNITS
LAFAYETTE, INDIANA

Governmental Unit	Prefix	First Name	Last Name	Suffix	Title	Address*	Phone
City of Lafayette Engineering and Public Works		Jeromy	Grenard	PE, PTOE	City Engineer	20 N 6th Street	(765) 807-1000
City of Lafayette Fire Department		Richard	Doyle		Fire Chief	443 N 4th Street	(765) 807-1600
City of Lafayette Police Department		Pat	Flannelly		Police Chief	20 N 6th Street	(765) 807-1000
Lafayette Renew		Brad	Talley		Superintendent	1700 Wabash Avenue	(765) 807-1800
Mayor's Office	Mayor	Tony	Roswarski		Mayor	20 N 6th Street	(765) 807-1002
State Representative - House District 27		Sheila	Klinker		State Representative	200 W. Washington Street, Indianapolis, IN 46204	(800) 382-9842
State Senator - Senate District 7		Brian	Buchanan		State Senator	200 W. Washington Street, Indianapolis, IN 46204	(800) 382-9467
Tippecanoe County Health Department		Jeremy	Adler	M.D.	Health Officer	20 N 3rd Street	(765) 423-9221
Tippecanoe County Surveyor's Office		Zach	Beasley		County Surveyor	20 N 3rd Street	(765) 423-9228
Tippecanoe County Sheriff		Robert	Goldsmith		Sheriff	2640 Duncan Road	(765) 423-9388
Tippecanoe County Soil & Water Conservation District		Chris	Remley		District Administrator	1812 Troxel Drive	(765) 474-9992

Notes:

* - City, state, and zip code is Lafayette, Indiana, 47901 unless otherwise noted

**APPENDIX IV
FACT SHEET**

FACT SHEET

Elliott Ditch Project Activities

Spring/Summer of 2020

Question or Comments, Call 24 hours a day (317) 613-4514 or e-mail at ElliottDitchQuestions@gmail.com

Background Information:

- Arconic Lafayette Operations (formerly Alcoa) submitted a work plan to the Indiana Department of Environmental Management (IDEM) and U.S. Environmental Protection Agency (U.S. EPA) Region 5 for review and approval of environmental cleanup activities for Elliott Ditch.
- Polychlorinated biphenyls (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.
- The Arconic Lafayette Operations phased out the use of PCB containing materials in the mid-1970s.
- Previous investigations conducted by the U.S. EPA and Arconic revealed historical PCB impacts to some overbank (soil) and sediment deposits in Elliott Ditch.
- The highest concentrations of PCBs, and widest extent of impacts in soil, were observed on the levee in Reach 1. Figure 1 has been attached depicting Reach 1 and the approximate extents of the levee.
- The work plan proposes the removal of PCB impacted soils from the levee, exceeding the cleanup objective of 1.0 mg/Kg, for offsite disposal at an appropriately permitted landfill.
- Arconic intends to implement future investigation and cleanup activities following the successful completion of the levee project, likely beginning in 2021, to address identified PCB impacts to soil and sediment within Elliott Ditch.

Next Steps:

- A copy of the IMWP can viewed on the IDEM's Virtual File Cabinet (vfc.idem.in.gov, Document No. 82630193), or available in the project record repository maintained electronically at <http://elliottditchproject.cecinc.com>.
- Public computer and internet access is available at the Tippecanoe County Public Library – South Branch located at 3715 S 18th Street, Lafayette, Indiana. This can be used to view project- related documents.
- Cleanup of the levee is scheduled to begin in spring, 2020.
- Arconic will be contacting residents and businesses to request permission to access their properties, and in some places, to access the ditch in support of the cleanup effort.
 - Property owners aiding in this investigation will be asked to sign a property access agreement.
 - Work undertaken related to the cleanup will be paid for by Arconic.
 - Following the completion of cleanup activities, private property will be restored to conditions equal to, or better, than preconstruction activities.

Environmental and Health Impacts:

Specific questions about health impacts of PCBs should be directed to the U.S. EPA or IDEM. For more information regarding PCBs, visit the Agency for Toxic Substances and Disease Registry's website at <https://www.atsdr.cdc.gov/toxfaqs/tf.asp?id=140&tid=26>.

Project Contact Information:

- The public may leave a message with their questions and concerns regarding investigations or cleanup activities at (317) 613-4514 or ElliottDitchQuestions@gmail.com.
- Regulatory contacts for the project are:
 - Mr. Donald Stilz, IDEM Project Manager, at (317) 232-3409 or dstilz@idem.IN.gov.
 - Ms. Jean Greensley, U.S. EPA Region 5 Project Manager, at (312) 353-1171 or greensley.jean@epa.gov.
- The news media may contact Tracie Gliozzi at Tracie.Gliozzi@arconic.com.
- Additional information is available on the project website <http://elliottditchproject.cccinc.com>.



NORTH



SOURCE: ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: [HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY](http://gto.arcgis.com/maps/world_imagery). LAST ACCESSED: 2/20/2019
 IMAGE DATE: 03/12/2011



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www.cecinc.com

ARCONIC INC. - LAFAYETTE OPERATIONS
 ELLIOTT DITCH REACH 1
 LEVEE REMEDIATION
 LAFAYETTE, INDIANA

LEVEE LOCATION OVERVIEW

DRAWN BY:

DMM

CHECKED BY:

JMB

APPROVED BY:

TLM*

FIGURE NO:

DATE:

FEBRUARY 20, 2019

DWG SCALE:

1" = 500'

PROJECT NO:

172-367.0011

1

Signature on File *

P:\2017\172-367-Draft Documents\Task 0010 - Remediation Plan\Figures\172-367 Elliott Ditch Levee Overview.mxd - 2/20/2019 - 1:48:30 PM (mbruck)